

# Bumers' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 1

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

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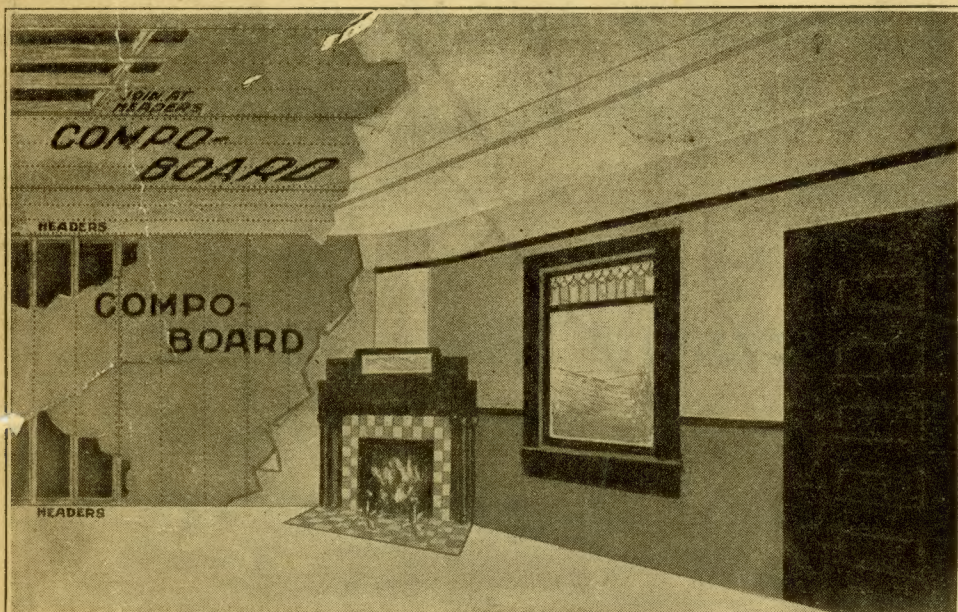
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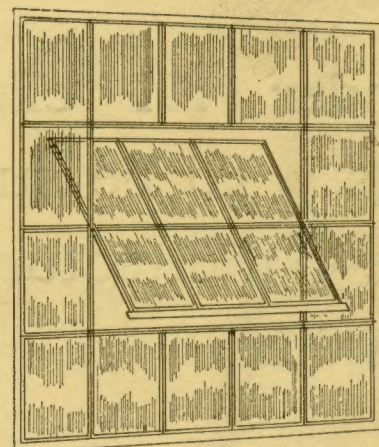
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¶ To be sure you are listed correctly under the classifications you desire, send names, addresses, Bell and Keystone 'phone numbers, and list of products you sell or manufacture, to 826 Perry Building, Philadelphia.

¶ Every firm or individual in any branch of Architecture or Building will be listed free. Listings include name, address, Bell and Keystone telephone numbers.

¶ Under all classifications advertisements will precede listings. To be sure your ad. will be in the 1923 Directory of the Architectural and Building Trades communicate at once with

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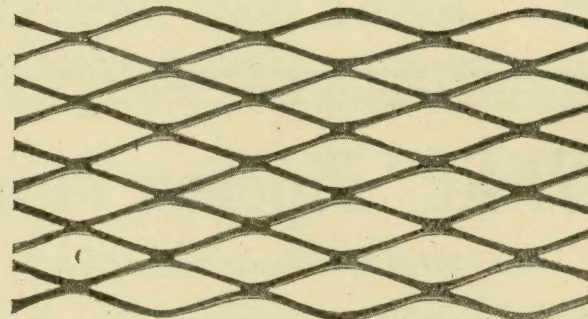
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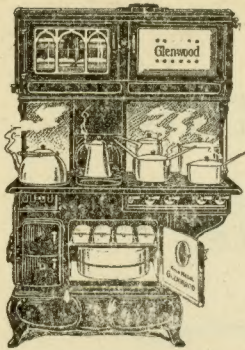
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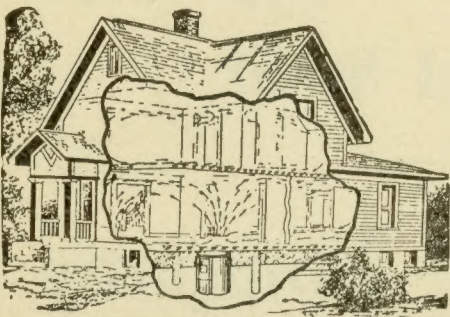
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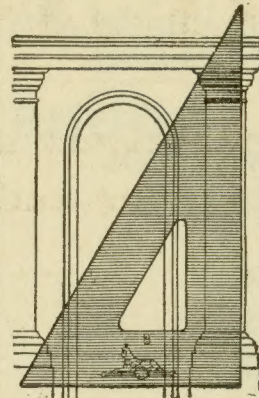
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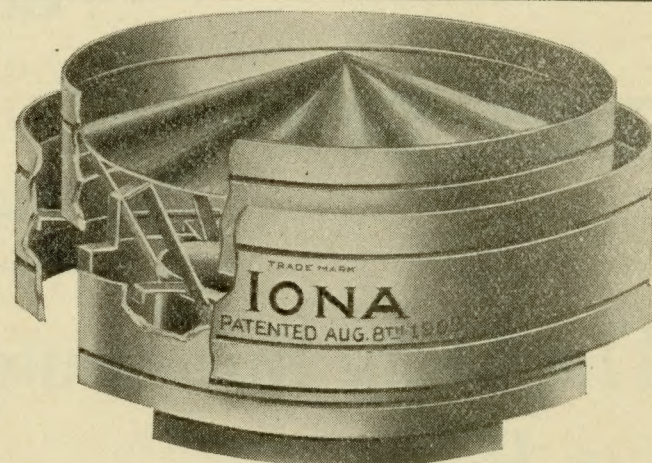
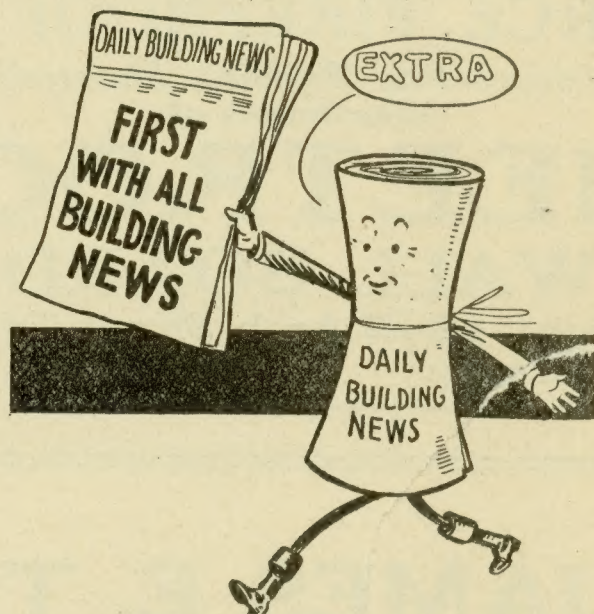


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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 1

PHILADELPHIA  
January 3, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 324-325-326)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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## As The Editor Sees It



AS the GUIDE has said at various times of late, there can be no entirely satisfactory adjustment of business conditions unless the shortage of both skilled and common labor is somewhat mitigated. A few issues back we mentioned some of the ways in which apprenticeship in the building trades is being fostered and made more alluring to the prospective apprentice. However, the work should not and can not depend entirely on construction organizations. There is certainly a very definite need which our public school has, so far, failed to meet; i. e., to prepare boys (and incidentally, girls) for the place in life which they are destined to fill. Schooling, if it meant a definite preparation for the trade a boy is to follow, would be much more attractive to many a young fellow, now entirely devoid of ambition to learn; and finding school irksome, because school does not, in his case, tend toward any greater earning capacity so far as he can see. In a recent address in Minneapolis, says the *American Contractor*, Dr. Donald W. Cowling, the president of the Carleton College, Minnesota, stated that there were in schools of the United States about 30,000,000 persons, of whom about 10 per cent would go through the high schools. In connection with the move to induce the state to assume toward the mechanic trades a broader sphere of training, it seems to be pertinent to question whether the edu-

cational system is doing anywhere near its duty to the 90 per cent who cannot go through the high schools.

Whether unable through intellectual limitations or through financial inability to continue in school, assuredly they are entitled to a reasonable chance to be trained in some occupation or employment whereby they may hope to make a living at maturity.

Our educational system does excellently for the young person who wishes to be a doctor, a lawyer, a dentist, an engineer, or a member of some other profession; but what about the rank and file who cannot aspire to the profession? Are they to be regarded as purely proletariat and to be ignored as having no right to a chance for training in a gainful occupation? This view is a disastrous one from any standpoint, since the young people who leave the grade schools or who drop out of the early classes of the high schools after an ignominious failure include many who might make first-class artisans in various lines.

Their trend may not be toward the professions, and yet they may be quite as efficient in the lines to which they have a bent as their colleagues who go into the professions. Furthermore, they would be better citizens, since, in having some definite trade they would have something to lean upon as a means of livelihood, whereas, without it and without the mental training which it carries, they will

not be so likely to think straight and to recognize the obligations upon them as citizens. Loose thinking and the reckless assumption that the country owes them a living, while they have no obligations, may in time very easily come from their being thrust into the world of work without any training to which to turn. Can our educational system honestly claim to have done its duty to this great mass, which has absolutely nothing offered it beyond the three R's, good foundation, but mighty little superstructure?

AS for common labor, there can be no relief in the shortage there unless immigration restrictions are lifted. At a meeting of Illinois Manufacturers, held in Chicago on December 15, the following pertinent resolutions were adopted:

WHEREAS, Over a great period of years, the United States has relied upon a continuing flow of immigration to largely supplement the skilled and unskilled labor required for furthering the development of agriculture, commerce, transportation and industry; this being vital to all, employers and wage earners alike.

WHEREAS, With the exception of a single year, such immigration substantially ceased since the outbreak of the Great War and is now severely restricted by emergency legislation con-

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ceived to meet conditions which existed immediately after the war.

WHEREAS, The nation is vitally concerned in at once relieving the diminishing agricultural labor and industrial supply and at the same time protecting the quality of our citizenship; be it

RESOLVED, That in the opinion of the National Conference of State Manufacturers' Associations there exists a continuing shortage of farm and industrial labor which affects efficient and economical agricultural and industrial production, and precludes any relief to the prevailing high cost of living, and that this situation requires immediate action on the part of the federal government in order that the facts may be ascertained on which Congress may base a constructive immigration bill.

We further believe that the best interests of the nation will be furthered by the substitution of a constructive policy of selective immigration for our present negative policy.

We recommend, further, that in the national interest the federal government should assert the right and assume the responsibility of controlling, registering, distributing and educating the immigrant during the period of his alienage.

This association hereby pledges its aid to the government and tenders its facilities for the securing of information in relation to the general situation as it affects our agricultural, commercial and industrial life and gives its assurance that it will lend its hearty co-operation with any and all other organizations working towards the same end.

## HAMPTON'S NEW COURSE FOR BUILDERS

BY H. WHITTEMORE BROWN

*In charge of the Department of Building Construction*

IF we analyze the present organization of the building industry we may distinguish four groups into which fall various phases of building construction. The first group, embracing the architect and the engineer, is charged with the analysis of the requirements for the project in mind and the preparation of plans and specifications indicating how these requirements are to be fulfilled. The function of the second group, usually called contractors or builders, is to supervise the combination of materials by labor so that the required result may be obtained quickly and economically. The third group includes those who manufacture and distribute construction materials and supplies. The fourth group consists of mechanics and laborers on the job.

The demarcation of these groups is not always clear; we have examples of sev-

eral and even all four functions being performed by one man, such as the country builder (especially in earlier times) who cut the timber and from it built a house. On the other hand, in many instances these groups are minutely subdivided, and we have architects specializing in various details, sub-contractors, specialized trades, etc. We may utilize the main groups, however, as a basis for studying the educational requirements of the industry.

Architecture and engineering have received considerable attention from trained educators for a great many years, resulting in quite systematic and uniform procedure in teaching these subjects. Likewise, instruction in the various trades has been offered for several years, while recently courses in business management, particularly as applied to manufacturing and distribution, have been established.

When we search for an instance of careful consideration of the training for the remaining link in the chain—the builder—we are not so easily rewarded. Few, if any, educational institutions have attempted to provide a well-rounded curriculum of a grade which would be considered necessary in nearly all other fields, and designed to equip the student with the fundamental principles of the building business.

The result of this lack of systematic training for builders is a large number of men undertaking the business unprepared to cope with its many difficulties. Architects and engineers who enter it are usually unaccustomed to business affairs and lack the detailed knowledge of the building trades which is essential to the builder. The mechanic who becomes a builder finds difficulty in mastering business details, as well as many technical points which his trade experience has not covered. In addition to these men who have had training in some phase of the industry, we have a large class of men entering the business with no other claim for recognition than their low bid, giving rise to the term "building broker."

That chaotic conditions actually exist, anyone who has received competitive bids on some building work will readily attest. Variations sometimes as high as one hundred per cent. on identical work, and frequent failures among builders are not due entirely to unstable conditions in the industry.

Many graduates of the Hampton Institute Trade School have developed from mechanics into builders, and in some cases even into architects; numerous examples of builders developing in this manner might tend to prove that the present trade training is sufficient. Further investigation, however, shows that nearly all of these men have been at a disadvan-

(Continued on page 12)

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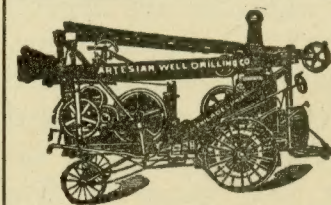
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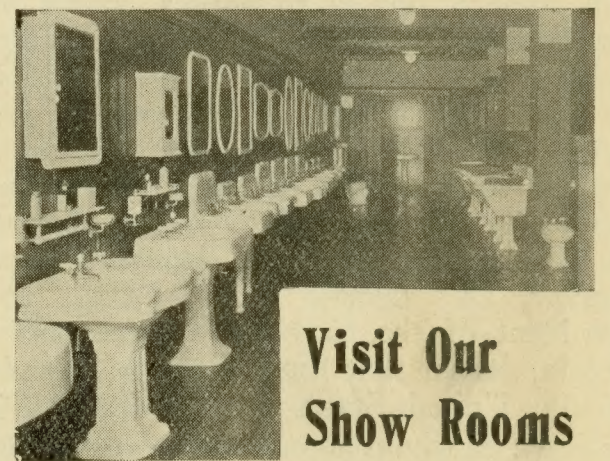


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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Church Building**, Third and Tabor road, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Olney Presbyterian Church, care of Rev. William H. Wells, 237 West Tabor road, Philadelphia. Stone, brick and steel. Architect is taking approximate bid.

**Residences (26)**, North and South sides Wellesley street, West of Lincoln Drive, Philadelphia, \$10,000 each. Architect, private plans. Owner, John H. McClatchey, 848 Land Title Building, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences and Garages**, South side Upsal street, West of Musgrave, \$83,000. Architect, private plans. Owner, Elmer B. Hampton, 4713 Oakland street, Philadelphia. Brick, 2 stories, 20x32 feet and 16x32 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Store Building (alts. and add.)**, 1801 Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, A. H. Waldo, care of architect. New plans in progress.

**Elementary Schools (3)**, Seventeenth and Lindley avenue, Gillespie, Knorr and Cottage streets, and Wakeling, Largo and Haworth streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, stone, steel, terra cotta, cut stone and concrete, 3 stories. Plans in progress. Will be ready for bids in near future.

**Residence and Garage**, Sedgwick street and Lincoln Drive. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, B. H. Buchsbaum, 723 Walnut street, Philadelphia. Brick, cut stone, hollow tile and stucco, 2½ stories, 58x41 feet, slate roof, oak and pine floors, metal lath, bond, electric lighting, tile and marble work. Revised plans in progress.

**Church**, Seventh street and Northeast Boulevard, Philadelphia. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. W. C. Sandt, 5204 North Carlisle street, Philadelphia. Stone, 1 story and basement, slate roof, electric lighting,

steam heating. Plans in progress. Architect will be ready for bids in about two weeks.

**Residences (50)**, Bridge street and Torresdale avenue, Philadelphia. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, slag roof, hardwood and pine floors, electric lighting, hot water heating, cement work. Plans in progress.

**Home (alts. and add.)**, 1728 North Seventh street, Philadelphia. Architect, David Levy, 1208 Real Estate Trust Building, Philadelphia. Owners, Northeastern Hebrew Orphans' Home, on premises. Brick, 1 story, 16x30 feet, slag roof, maple floors, metal lath, plastering, painting, glazing, electric work, tile and marble work, plumbing. Preliminary plans in progress.

**Synagogue**, Tenth and Ruscomb streets, Philadelphia. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owners, Bnai Israel Congregation, care of architect. Stone, brick, steel and concrete. Plans about completed. Will be ready for bids in about ten days.

**Building (alts. and add.)**, 1226 Ridge avenue, Philadelphia. Architects, W. Macy Stanton and Stanley Potter Stewart, 1524 Chestnut street, Philadelphia. Owners, Parkway Baking Co., 1222 Ridge avenue, Philadelphia. Engineers, Marshall & Pennell, 1524 Chestnut street, Philadelphia. Reinforced concrete, brick and steel, 2 stories, ground floor and basement, irregular, composition roof, maple and cement floors. New plans will be drawn.

**Stores (2), Residences (19)**, Ann, Livingston and Almond streets. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, A. Rubin, 1127 Thompson street, Philadelphia. Brick, 2 stories, 16½x48 feet and 21 feet irregular, 48 feet, (13) 15x40 feet, and (6) 16x36 feet, slag roof, hardwood floors, hot water heating, electric lighting, plate glass, metal bulks. Owner is taking sub-bids.

**Residences (117)**, Charles, Comly, Van Kirk and Howell streets, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Brinkmann & Hoover, Inc., 2617 Frankford avenue. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, tile work, hot water heating, electric lighting, mineral flooring. Owners will build

and will be ready for sub-bids in one week.

**Residences (9)**, Chalmers street, between Somerset and Cambria streets. Architect, private plans. Owner, J. Stanley Smith, Stephen Girard Building, Philadelphia. Brick, 2 stories, irregular in size, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

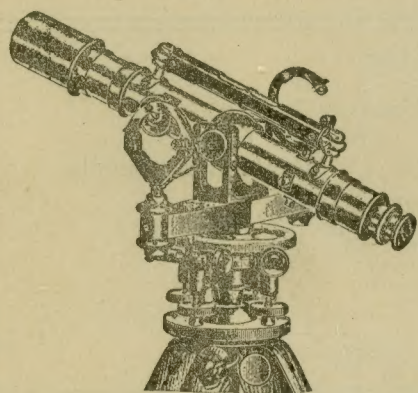
**Twin Residences (2) and Single Residence**, South side of Pine, between Fiftieth and Fifty-first streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Russell H. Thompson, 1524 Chestnut street, Philadelphia. Brick, 3 stories, 16x68 feet and 20x62 feet, slag and slate roof, hardwood floors, metal lath, cement work, hot water heating, electric lighting, tile and marble work. Owner is taking sub-bids.

**Stores and Apartments (9) and Store and Apartment**, Fifty-sixth and Walnut streets, Philadelphia. **Apartment Houses (16)**, Fifty-sixth street, between Walnut and Sansom streets. **Residences (23)**, Sansom street, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owners, Dorie Const. Co., Inc., Room 806, 1218 Chestnut street. Brick, 2 and 3 stories, 15x52 feet, 18x60 feet, 22x62 feet, and 16x43 feet, respectively, slag roof, oak and pine floors, metal lath and ceilings, iron work, hot water and steam heating, electric lighting, tile and marble work. Owners will build and will be ready for sub-bids in one week.

**Apartment House**, Northwest Corner Forty-seventh and Walnut streets, Philadelphia, \$600,000. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Kenin and Shapiro, 5850 Market street, Philadelphia. Brick, 4 stories, 242x102 feet, slag roof, hardwood floors, dumb waiters, steam heating, electric lighting, hollow metal sash and skylights, iron work, iron stairs. Owners will build.

**Store (alts.)**, Thirteenth and Rising Sun Lane, Philadelphia, \$2,700. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owners, Cohn & Lamper, on premises. Carpentry, mill work, painting, glazing, plastering, metal lath. Architect will build.

**Jefferson Apartments**, Northeast Corner Sixty-third and Jefferson streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth



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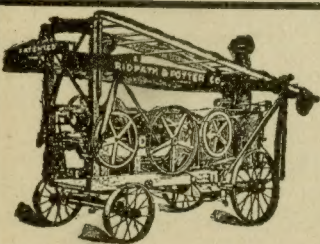
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Design—Shop Details—Fabrication—Erection

street, Philadelphia. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick and stone, 4 stories, slag roof, hardwood floors, dumb waiters, artificial tile, hollow metal sash and skylights, iron work, iron stairs, steam heating, electric work. Owners will build.

**Residences (2)**, Midvale avenue, Queen Lane Manor, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, Raymond R. Rilling, 1425 West Venango street, Philadelphia. Brick and stucco, 3 stories, 24x45 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owner will build.

**Storage Building**, 1204 Fitzwater street, Philadelphia. Architect, Herman H. Kline, 717 Bulletin Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x52 feet, slag roof, cement floors, hot water heating, electric lighting. Architect is ready for bids and sub-bids.

**Social Service Building**, 307-09-11 South Broad street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, name withheld. Brick, cut stone, concrete and steel, 10 stories, 50x136 feet, slag and tile roof, cement and oak floors, hollow tile, elevators, waterproofing, terra cotta, iron work, bond, tile and marble work, metal lath, electric lighting, steam heating. Architect taking bids due January 10th at noon.

**Bank Building (alts. and add.)**, Seventh and Dauphin streets, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Northern National Bank, on premises. Brick, reinforced concrete and bluestone, 1 story, basement and mezzanine, irregular, slag roof, cement and pine floors, roof ventilators, waterproofing, terra cotta, iron work, bond, bank fixtures, rolled steel skylights, tile and marble work, metal lath, steam heating, electric lighting. Architect taking bids due January 11th.

**Apartment House**, Forty-second above Baltimore avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Emmanuel Zinn, 831 Cherry street, Philadelphia. Brick, concrete and steel, 3 stories and basement, 119x55 feet, slag roof, oak and pine floors, terra cotta, iron work, central heating, electric lighting. Architects taking bids due January 5th.

**Sales Building**, 1312-14 Chestnut street, Philadelphia. Architect, Andrew J. Sauer Co., Inc., Denckla Building, Philadelphia. Owners, Cunningham Piano Co., Eleventh and Chestnut streets, Philadelphia. Brick, reinforced concrete, precastone, steel and cut stone, 15 stories, 104x38 feet, tile roof, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, terra cotta, iron work, iron stairs, rolled steel sash and doors, kalamein

doors, tile and marble work, steam heating, electric lighting. Architect taking bids due January 10th at 10 A. M.

**Residences (13)**, 5620-44 North Sydenham street, \$76,000. Architect, private plans. Owner, William J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia. Brick, 2 stories, 16x31 feet, 12x13 feet and 16x45 feet, slag roof, oak and pine floors, electric lighting, hot water heating. Owner will build.

**Residences (11)**, Third and Mentor streets, Philadelphia, \$50,000. Architect, private plans. Owner, Herman Rottman, 4602 Ella street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, electric lighting, hot water heating. Owner will build.

**Residences (12)**, 5852-74 North Sixth street, \$4,500 each. **Residences (12)**, 5849-71 North Sixth street, \$4,500 each. **Residences (42)**, 5801-83 North Seventh street, \$4,000 each. Architect, private plans. Owner, Walter S. Bauer, 5802 North Fifth street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, electric lighting. Owner will build.

**Residence and Store (add.)**, 224 South Eighth street, \$10,000. Architect, private plans. Owner, L. S. Sharko, on premises. Brick, 2 stories, 24x87 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Runway**, South side Tiogastreet, East of Memphis street, \$6,000. Architect, private plans. Owners, Whitney-McDonald Co., on premises. Frame. Owner will build.

**Manufacturing Building**, West side Cecil street, North of Hoffman street, \$6,000. Architect, private plans. Owner, F. H. Thole, 1200 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 32x50 feet, slag roof, steam heat, maple floors, electric lighting. Owner will build.

**Lumber Sheds (2)**, South side Bartram avenue, West of Eightieth street, \$2,600. Architect, private plans. Owners, Frederick R. Gerry & Co., Peltz street and Schuylkill River. Frame, 1 story, 144x60 feet. Owners will build.

**Grading and Paving**, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, City Hall. Low bidders:

Grading—Blakemore street, Phil-Ellena street to Sprague street, \$21,539.68; Commercial Const. Co., 1220 Filbert street, Philadelphia. Bingham street, Devereaux avenue to Robbins street, \$21,998.95; Terranti & Cellessi, Lincoln Building, Philadelphia. Champlot avenue, Tenth to Ogontz avenue, \$47,036.98; John Devlin, Jr., Hancock and Thompson streets, Philadelphia. Carpenter street, Germantown avenue to Mower street Footwalks; John Devlin, Jr., Hancock and Thompson streets, \$1,169.74. Edgemore road, Lebanon avenue to Malvern avenue, \$2,981.88;

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John J. Lynch, 1006 South Sixtieth street, Philadelphia. George's Lane, Columbia avenue to Montgomery avenue, \$9,892.40; Roy B. Wenner, 3106 Midvale avenue. Louise street, Middleton street to Walnut lane, \$3,500; Richards Kelly Co., 349 North Fifty-seventh street, Philadelphia. Sixty-fifth avenue, Fifth street to Sixth street, \$921.20; Terrantti & Cellessi, Lincoln Building, Philadelphia. Sixty-sixth street, Haverford avenue to Lansdowne avenue, \$3,148.80; Edward F. Mullins, 607 Sixty-fifth avenue, Philadelphia.

Asphalt Paving—Cornwall street, Emerald street to Jasper street, \$3,372.12; Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Laying Vitrified Pipe Conduit—From Haines street, on Crittenden street, Wister and Cora streets, \$5,412.50. Fred. T. Buckius, 4050 Kensington avenue, Philadelphia.

Improving Roosevelt Boulevard—Lombardi & Yettman, Lincoln Building, Philadelphia, \$153,278.00.

## Contracts Awarded

### Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Building (alts. and add.),** 2825-27 North Broad street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Irvin King, 132 South Fourth street, Philadelphia. Concrete work, structural steel, carpentry, mill work, demolition, painting, electric work, plastering, bond. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Store and Shop,** 1526 Vine street, Philadelphia, \$4,500. Architect, private plans. Owner, Edward W. Flood, Sixteenth and Cherry streets, Philadelphia. Brick, 2 stories, 18x80 feet, slag roof, pine floors, electric work. Contract awarded to Edward Cunningham, 2219 Race street.

**Fire Houses (2),** No. 18, 1920 Callowhill street, and No. 30, 3546 Germantown avenue, Philadelphia. Architect, private plans. Owners, Department of Public Safety, Bureau of City Property, Frank H. Caven, Director, 216 City Hall. General alterations. Lowest bidder: No. 18, George F. Dobbin, 1020 South Forty-seventh street, Philadelphia, \$1,900. No. 30, George F. Dobbin, 1020 South Forty-seventh street, Philadelphia, \$2,400.

**Stores and Apartments (alts. and add.),** Northwest Corner Twenty-second and Montgomery avenue, Philadelphia. Architect, Charles J. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Harry Garb, care of architect. Brick, 3 stories, 16x18 feet, slag roof, hardwood floors, hot water heating, electric lighting, plate glass, flush bulks. Contract awarded to J. Gorchov, 4116 Girard avenue, Philadelphia.

**Workshop (add.),** Allison street, South of Arch street, Philadelphia. Architect, private plans. Owner, Samuel Yellin, 5520 Arch street, Philadelphia. Brick, reinforced concrete, 2 stories, 49x96 feet, slag roof, maple, cement and composition floors, terra cotta, demolition, hot water heating, electric lighting, terra cotta. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

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**Apartment and Store,** Southeast Corner Wakeling and Oxford streets, \$42,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sale, Liberty Building, Philadelphia. Brick, 3 stories, 62x55 feet, slag roof, electric lighting, oak and pine floors, tile work. Contract awarded to Rush Brothers, 1006 Harrison street, Philadelphia.

**Store and Two-Family Apartment,** Southwest Corner Union and Fairmount avenue, \$10,000. Architect, private plans. Owner, Joseph Farnabio, 3953 Fairmount avenue, Philadelphia. Brick, 3 stories, 19x70 feet, slag roof, electric lighting, oak and pine floors, tile work. Contract awarded to H. Bragen, 3822 Brown street, Philadelphia.

**Fire Tower (alts. and add. to Building),** 107-09 South Thirteenth street, \$25,000. Architect, private plans. Owners, Jack and Robert Stecker, 1220 Walnut street, Philadelphia. Brick, 7 stories, 8x14 feet, carpentry, mill work, cement work, elevators, plastering. Contract awarded to Edward Fay & Son, 2 South Mole street, Philadelphia.

**Residence (add.),** 8043 Moro street, Philadelphia, \$7,000. Architect, private plans. Owner, James MacNally, 5027 Hawthorne street, Philadelphia. Brick, 2 story add., 14x28 feet, slag roof, oak and pine floors, electric lighting, tile work. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

**Residences and Stores (4),** 2678-80-82-84 Orthodox street, \$6,500 each. Architect, private plans. Owner, Sadie Pezzillo, 3347 Almond street, Philadelphia. Brick, 2 stories, 15x45 feet and 12x15 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to F. Pezzillo, 3347 Almond street, Philadelphia.

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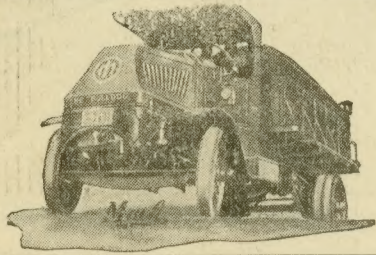
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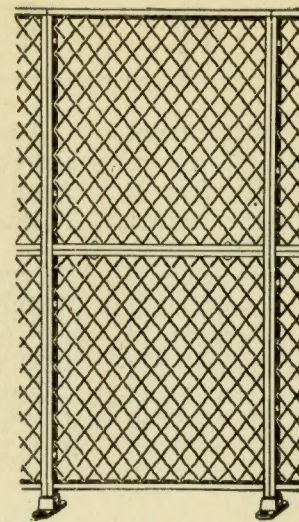
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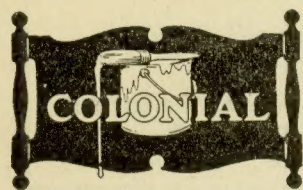
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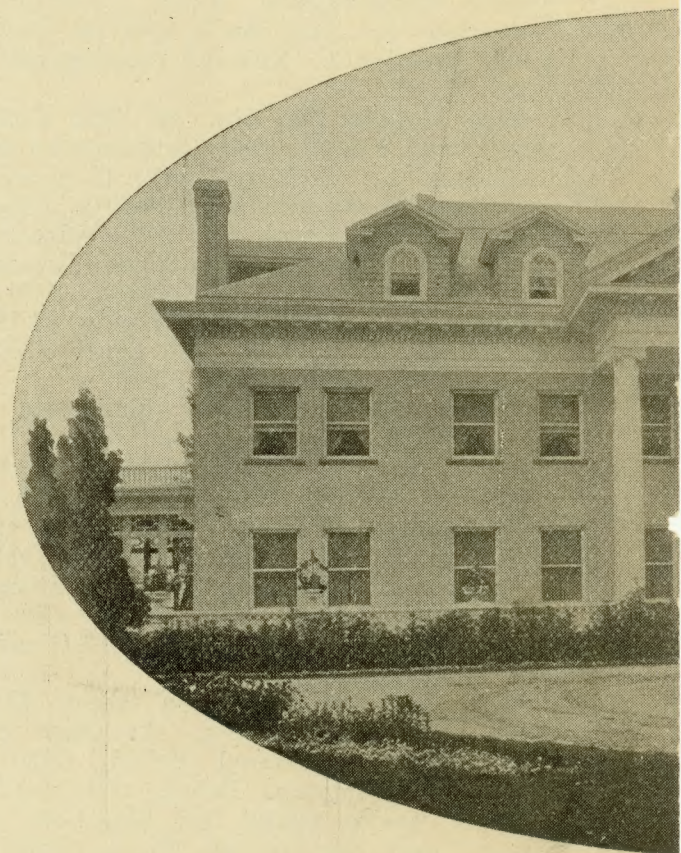
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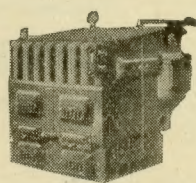
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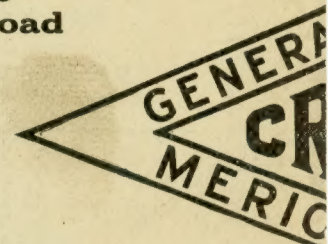
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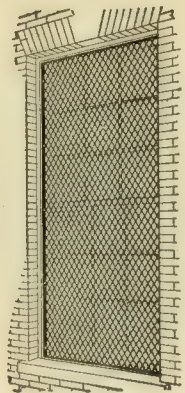


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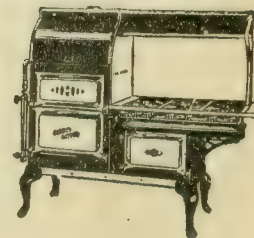
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## WAREHOUSE STOCK IN PHILADELPHIA

**Sales Building (alts.)**, 36 North Second street, Philadelphia, \$4,000. Architect, private plans. Owner, M. Goldberg, on premises. General alterations. Contract awarded to Clayton Lofland, 231 North Water street, Philadelphia.

**Storage Building**, South side Roberts avenue, West of Wayne avenue, \$4,000. Architect, private plans. Owner, H. F. Newton, 165 North Front street, Philadelphia. Brick, 1 story, 45x114 feet, slag roof, electric light, pine floors. Contract awarded to G. Stevenson, Southeast Corner Front and Race streets.

**Residence and Store (add.)**, 2049 Cheltenham avenue, \$3,000. Owner, Samuel Goldfarb, 1213 East Cheltenham avenue, Philadelphia. Brick, 1 story, 16x20 feet, slag roof, pine floors, electric lighting. Contract awarded to S. S. Billingsley, 1230 Cheltenham avenue.

**Stores (alts.)**, 215 Arch street, Philadelphia, \$3,085. Architect, private plans. Owner, Elizabeth Blanchensee, 217 Arch street, Philadelphia. General interior alterations. Contract awarded to J. Harry Rea, 1019 Apple-tree street.

**Residence (add.)**, 6220 Lansdowne avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Michael J. Walsh, 6113 Columbia avenue, Philadelphia. Brick, 2 story, 16x18 feet, slag roof, pine floors, electric light. Contract awarded to Owen Fogarty, 3926 Mt. Vernon street.

**Apartment (alts.)**, 2030 North Fifteenth street, Philadelphia, \$2,500. Architect, private plans. Owner, Mrs. Rea Weil, 3226

Ridge avenue, Philadelphia. General alterations. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street.

**Residence (alts.)**, Northeast Corner Thirty-first and Norris streets, \$2,000. Architect, private plans. Owner, Jennie Rosen, on premises. General alterations. Contract awarded to Joseph Sosnofsky, 1912 North Patton street.

**Garage**, 231 West Tulpehocken street, Philadelphia, \$2,000. Architect, private plans.

Owner, Charles W. Roberts, on premises. Stone, 1 story, 19x24 feet, slate roof, cement floor. Contract awarded to Tourison & Tourison, 1310 Sansom street, Philadelphia.

**Garage**, 6241 Arch street, Philadelphia, \$2,000. Architect, private plans. Owner, A. J. Busch, on premises. Brick, 1 story, 16x42 feet, slag roof, cement floors, electric lighting. Contract awarded to J. D. Fisher, 5426 Thompson street.

## PENNSYLVANIA

## Construction News

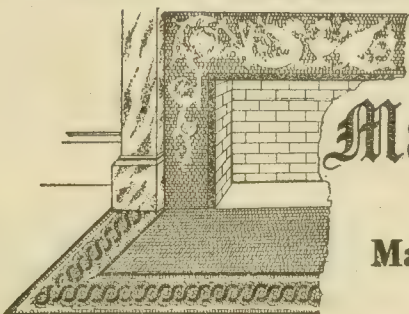
**Service Station**, Church road and Lancaster avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Harris, Le Roy & Clark, Ardmore, Pa. Brick and steel, 2 stories, 60x150 feet, cement and tile roof, reinforced concrete floors, (1) elevator, hollow metal doors, skylights and sash, electric lighting, steam heating. Plans about completed. Architect will be ready for general bids in one week.

**Twin Residence**, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Pentz Pippin, Ardmore, Pa. Stone, frame and stucco, 2½ stories, 19x40 feet each, shingle roof, hardwood floors, hot

water heating, electric lighting, tile work. Plans completed. Owner will be ready for sub-bids in a few days.

**Residence**, Springfield, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, H. B. Hunt, Sunset and Saxer roads, Springfield, Pa. Frame and Rockbond stucco, 2½ stories, 42x30 feet, asbestos shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is ready for sub-bids.

**Residence**, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Walter K. Durham, 323 Walnut street, Philadelphia. Stone and frame, 2½ stories, 24x31 feet, shingle roof, hot water heating,



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electric lighting, hardwood floors. Owner is ready for sub-bids.

**Factory**, West Lancaster Pike, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, John E. Caruso, Ardmore, Pa. Brick and steel, 2 stories, 30x70 feet, slag roof, pine floors, elevator, roof ventilators, hollow metal doors, hollow metal sash and skylights, plumbing, electric lighting, hot water heating. Plans in progress. Architect will be ready for bids in two weeks.

**Nurses' Home**, Eagleville, Pa. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Eagleville Sanitarium for Consumptives, Eagleville, Pa. Frame. Plans in progress. Architect will take bids.

**Junior and Senior High School**, Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, Board of Education, Norristown, Pa. Brick, stone, steel and concrete. Sketches in progress.

**Residences (twin) (40)**, Springfield, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Hollow tile and stucco, 2½ stories, 16x38 feet, asphalt slate shingle, slate and shingle, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress. Will be ready for sub-bids in two weeks.

**Residence**, West Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, James A. Goodhart, 534 Franklin street, West Reading. Brick, 2 stories, 38x26 feet, oak and pine floors, stone foundations, hot water heat, electric light, slate roof. Plans in progress.

**Telephone Exchange (alts. and add.)**, Lancaster, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, third story add., 19x135 feet, slag roof, cement floors, steam heating, electric lighting, tile work. Owners taking bids due January 12th.

**Residence**, Rydal, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, C. N. Cadwalader, care of architect. Stone and steel, 2½ stories, 68x25 feet, slate roof, oak and pine floors, iron work, tile work, metal lath, electric lighting (heating and cork floors reserved). Architect taking bids due January 6th.

**Stores and Apartments**, Glenside, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Brody & Cherry, Glenside, Pa. Brick, 2 stories, 16x58 feet, slag roof, oak and pine floors, hot water heating, electric lighting, metal lath, hollow metal skylights, bond, metal bulks. Owners are taking bids.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Capitol Building, Harrisburg, Pa. The following are low bidders on road work opened December 27th, 1922:

Beaver County, Route 243, Section 1, Industry and Borough Townships, length 16,597 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Fred. D. Ross, Bradford, Pa., \$205,028.30.

Beaver County, Route 243, Section 2, 21,986 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Chester General Contracting Co., East Liverpool, Ohio, \$203,961.10.

Mercer County, Route 82, Greenville Borough, Hempfield and Sugar Grove Townships, length 13,704 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Fred. D. Ross, Bradford, Pa., \$132,399.52.

Mercer County, Application 2255, Hemp-

field Township, 6,094 feet. One course reinforced concrete. M. Bennett & Sons, Indiana, Pa., \$45,656.40.

## Pennsylvania Contracts Awarded

**Grandstand and Stable**, Devon, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Devon Horse Show Association, Devon, Pa. Frame, 1 story, 30x20 feet, slag and shingle roof, hollow tile, metal lath, painting, hardware, plastering, plumbing. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Allegheny County, Routes 70 and 72, Shaler Township, 5,618 feet. One course reinforced concrete. Contract awarded to Burgess & Dorrer, Scottsville, Virginia, \$151,443.00.

## NEW JERSEY Construction News

**Show Room and Apartment**, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Eastburn Auto Repair Co., 510 Taylor street, Camden, N. J. Sketches in progress.

**Store (alts. and add.)**, Broadway and Pine streets, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, W. L. Hurley & Co., on premises. Brick, steel, 1 story add., 80x100 feet, slag roof, hardwood floors, electric lighting (heating reserved), tile, marble and terrazzo work, rolled steel sash, roof ventilators, terra cotta, ornamental iron work. Plans in progress. Architect will be ready for bids about January 10th.

**Milk Station**, Pennsylvania and Mediterranean avenues, Atlantic City. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Peter Hernig's Sons, Inc., Atlantic City, N. J. Brick and steel, 1 story, 100x93 feet, slag roof, cement and pine floors, metal lath, iron work, bond, copper skylights, electric lighting, steam heating. Revised plans in progress.

**Stores (5) (alts.)**, Factory street, Trenton, N. J. Architect, William Klemann, First Na-

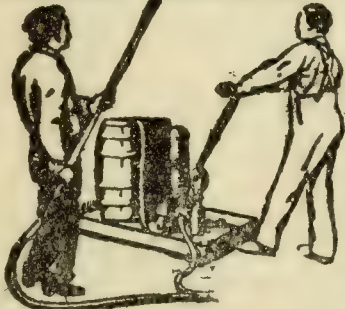
tional Bank Building, Trenton. Owner, S. B. Shankman, 137 South Broad street, Trenton, N. J. Electric work, pine floors, tile work, plate glass, copper work, general alterations, metal ceilings. Plans in progress.

**Auto Show Room**, 3426 Atlantic avenue, Atlantic City, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Mrs. M. G. Smith, 3426 Atlantic avenue, Atlantic City, N. J. Brick, cut stone, castone and steel, 2 stories, 86x26 feet, Warren-Ehret roof, cement floors, steam heating, electric lighting, metal lath, tile work, rolled steel sash and skylights, tin-clad doors, iron work. Architect taking revised bid due January 6th.

**School (add.)**, Winslow, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Board of Education, Horace Angelow, secretary, Blue Anchor, N. J. Frame, 1 story, 39x64 feet, shingle roof, hardwood floors, electric lighting, hollow metal skylights, pump. Architect taking bids (revised) due January 11th.

**Store and Apartments (4)**, Moorestown, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner,

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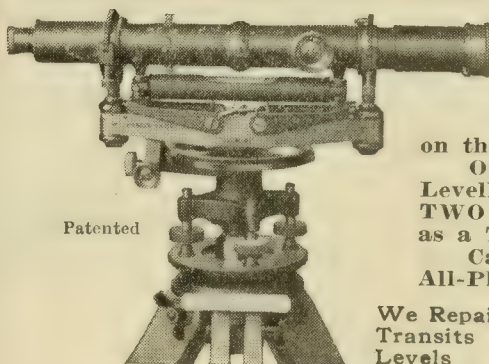
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136 N. 12th Street

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Rebuilt  
Instruments  
For Sale  
or Rent



name withheld. Brick, cut stone, 2 stories, 95x70 feet, slag roof, pine floors, hot water heating, electric lighting, tile and marble work, metal bulks. Architect taking bids.

**Office and Store (alts.),** 936 Broadway, Camden, N. J. Architect, M. G. Gill, Law Building, Camden, N. J. Owner, Dr. I. S. Siris, on premises. General interior alterations, hardwood floors, electric lighting, composition and maple floors, tile work. Owner will sub-let.

## New Jersey Contracts Awarded

**Junior High School,** Park Boulevard and Euclid street, Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Board of Education, City of Camden, N. J. Reinforced concrete, brick and steel, 3 stories, 282x149 feet, tile and slag roof, cement and duraflex floors, hollow tile, metal lath, safety treads, roof ventilators, metal ceilings, terra cotta, iron work, precast stone, rolled steel skylights, tile and marble work. Contracts awarded to H. John Homan Co., 1701 Chestnut street, Philadelphia, \$465,700. Plumbing, J. H. Hutchison, 1020 Callowhill street, \$21,834. Electric, Strang Electric Co., 214 South Seventh street, \$11,657. Heating not yet awarded.

**Printing Press Room (alts.),** 10 South Stockton street, Trenton, N. J., \$15,000. Architect, private plans. Owners, Trenton Times, on premises. General alterations. Contract awarded to Karno-Smith Co., Broad Street Bank Building, Trenton, N. J.

(Continued from page 4)

tage because they lacked knowledge of the principles of the business or, expressed in another way, their success would have been greater if they had had an opportunity to study systematically the handling of construction work.

It is evident, therefore, that something should be done, not only to improve conditions in the building industry, but also to enlarge the opportunities of the graduates of Hampton and other trade schools.

If some method can be found to teach men the principles of the building business so that they may enter this field well equipped to solve the intricate problems which confront them, they will have many opportunities for success and for service to their communities.

Let us study, therefore, the requirements of a good builder, and determine what instruction should be provided to assist capable men to attain this worthy goal.

These requirements may be divided into six different groups, each dealing with a characteristic necessary to the make-up of a good builder. First among these is the way in which he carries on the business or office end of his affairs. His dealings with men, materials, and money are numerous and often intricate. Here accuracy is paramount, and slipshod methods are an almost sure road to failure. Briefly, the builder should have *Accurate Business Methods*.

The operation of the construction job calls for a different trait; here the ability to plan ahead so that the material arrives when the workmen need it and all are able to work to the greatest advantage, is important. The relationship between the builder and his men requires considerable tact. This all calls for *skillful Field Management*.

Again, the builder has to deal with all kinds of building materials, each requiring considerable knowledge, both in purchasing and in placing in the building. The architect may specify the material he wants, but the builder must find it and know how to put it where it belongs in the proper manner. This requires *Thorough Knowledge of Building Materials and Trades*.

The builder being confronted continually with the problem of using his material so as to give the greatest strength and rigidity to his structure, must have a good understanding of the laws of mechanics to aid him in determining how his material should be put together. This should come to him naturally, as a sort of sixth sense, and for that reason may be termed *Sound Structural Sense*.

A great many builders are called upon

to construct houses and other small buildings without the supervision of an architect. In fact few architects care to devote their time to this class of building because it requires a large amount of study and the return is comparatively small. This throws a large share of the responsibility for producing an attractive, economical house upon the builder. However, he need not be an architect too in order to fulfill this requirement. At present there is a rapid development of the standard-plan idea, whereby excellent plans for small and medium-sized houses are produced by a number of architects working together, and sold to builders and prospective owners at a nominal price made possible by quantity distribution. With these at his command the builder can satisfy almost any demand that may be made for plans. Acting as an adviser to the owner, however, the builder should have better than the average appreciation for the simplicity of good architecture and the fitness of a plan for given conditions. In other words, we say that the builder should have *Discriminating Architectural Taste*.

Much of the success of a builder depends upon his ability to make satisfactory contact with the persons with whom he has dealings. He must not neglect the human side of his development, and must keep his ideals high and his vision clear. He must be a man of *Broad Human Interests*.

While many of these characteristics are obtained only from years of experience, the aim of the Hampton Institute Builders' Course is to stimulate the interest of the prospective builder in all phases of the industry, and to give him training in as many of the problems he will be likely to encounter as may be possible under school conditions. The following outline is for the regular two year course:

- I ACCURATE BUSINESS METHODS
  - 1 Typewriting
  - 2 Accounting
  - 3 Time Keeping and Cost Records
  - 4 Quantity Surveying and Estimating
  - 5 Purchasing
  - 6 Business Law and Practice
- II SKILLFUL FIELD MANAGEMENT
  - 10 Laying Out Buildings
  - 11 Construction Machinery, Tools and Equipment
  - 12 Conduct of Jobs
  - 13 Training and Managing Men
- III THOROUGH KNOWLEDGE OF BUILDING

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## MATERIALS AND TRADES

- 20 Building Stones
- 21 Clay Products
- 22 Limes and Plasters
- 23 Cement, Concrete, and Concrete Products
- 24 Timber and Wood
- 25 Steel and Other Metals
- 26 Paints, Varnishes, and Protective Coatings
- 27 Plumbing Installations
- 28 Heating Plants
- 29 Electric Wiring
- 30 Selection and Use of Hardware
- 31 Chemistry of Building Materials
- IV SOUND STRUCTURAL SENSE
- 40 Mathematics
- 41 Applied Mechanics
- 42 Elements of Structural Design
- V DISCRIMINATING ARCHITECTURAL TASTE
- 50 Application of Architecture
- 51 Study of Plans and Working Drawings
- 52 Placing Buildings and Planting Grounds
- 53 Thesis covering all groups of instruction
- VI BROAD HUMAN INTERESTS
- 60 Psychology
- 61 Economics
- 62 Public Health and Sanitation
- 63 English
- 64 Composition and Specification Writing

In order that a man may make satisfactory progress in a course such as outlined above, two requirements for admission are essential. First, the equivalent of a general high-school education, which should insure facility in the use of arithmetic, algebra, English, etc. Second, experience in some building trade, preferably as a journeyman, although graduation from an approved trade school and summer experience on actual construction should give one an appreciation of the quantity and quality of work demanded in practice, which is such essential experience for the builder.

The principal physical equipment necessary for carrying out such instruction, besides the usual class and lecture-rooms, is a laboratory where experience may be gained in the building materials and the trades which are developed for putting these materials together. Provided the student is thoroughly acquainted with one trade, he should obtain, in a comparatively short time, sufficient understanding of the other trades to enable him to supervise them intelligently. Thus his study of the materials and the trades can proceed hand in hand. At the same time this laboratory will contribute largely to the development of "sound structural sense," because strength is one of the most important properties of building materials which the student must consider. The Laboratory of Building Construction

which is now being equipped at Hampton has these objects in view. It is provided with a machine of fifty tons' capacity for testing the tensile, compressive, and transverse strength of various materials. Another machine designed especially for testing portland cement, mortar, etc., and other pieces of equipment, furnish means of studying the properties of these materials. Other machines having to do with special branches of the industry will be added from time to time. The whole floor space is served by two overhead traveling cranes, so that heavy objects encountered in the work may be handled with ease.

Another section of the laboratory is given over to permanent exhibitions illustrating the processes of manufacturing various building materials, details of their use, machinery, and supplies which play important roles in construction work. In addition there will be photographs showing various phases of building operations. The object of these exhibits is to supplement the class and lecture work, and enable the students to learn as much as possible through their eyes.

The equipment and personnel necessary for the conduct of the Builders' Course can be utilized in many ways which will be of advantage to those unable to attend the regular course. The maintenance of a Service Bureau as a clearing house for information on materials, supplies, and machinery bids fair to be one of the important functions of the Department of Building Construction, under which all of these activities will be carried on. The services of this Bureau will also be available for checking estimates and designs, making tests of materials, and increasing the usefulness of standard-plan services.

There are many subjects in the regular Builders' Course which would assist practicing builders in bettering their business. In order to reach these men, short courses in many of the regular subjects will be

offered so that builders may spend from one to six weeks at Hampton during the dull season perfecting themselves in various details. If the demand warrants, some of these subjects will be offered in night courses and by correspondence.

It is difficult for men in active building to keep abreast of the developments in their field. New materials, methods, and machinery are constantly being developed. It would be a great advantage to builders if they could have such things demonstrated and explained to them by competent persons, with an opportunity to ask questions or to try out questionable details for themselves.

The object of the annual Builders' Conferences, the first one of which is to be held at Hampton January 29, 30, and 31, 1923, is to give builders such an opportunity, and in addition to give them a chance to meet one another for exchange of ideas and experiences. At the first Conference emphasis will be laid upon the value and use of standard plans to the builder, and upon a demonstration of the use of the Laboratory of Building Construction. These subjects will be treated by several well-known and authoritative speakers. In addition many other subjects of interest to builders will be discussed, and arrangements have already been concluded for the demonstration of several pieces of modern construction machinery. The evenings will be devoted to get-together meetings, preceded by motion pictures of special interest to builders. These meetings will provide opportunities for getting acquainted and discussing matters of vital interest.

As the Conference is the opening event of the Department of Building Construction, every effort will be made to have it reach the high standard which has been set for all the other activities of this department, as well as of Hampton Institute in general.

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Philadelphia



The Henry Vogt Machine Company, Franklin Trust Bldg., Philadelphia, have been awarded the contract amounting to \$45,000 for the Ice Machines in the Logan Ice Company Plant at 10th and Windrim Streets, Philadelphia.

### LIME PLASTER—WHAT IS IT?

Common lime, while to us it may seem a most ordinary product, has required countless ages in the processes of nature; the bringing into being, and the destruction of numberless organisms upon which nature has expended her resources for periods of time far beyond our comprehension. The last part of the process may be prosaic. Lime is the product derived from heating limestone rock until all the carbon dioxide gas has been expelled. When lime is slaked, that is, mixed with water, it has—to the uninitiated—some very wonderful properties, in the giving off of heat, as well as the qualities of the plaster which it produces.

Geology tells us that limestone rock is the calcareous deposits of various forms of marine life, resembling our present day clams and oysters. In certain parts of the country particularly rich in deposits of dolomite limestone, fossils, carbonated clams, are found in the rocks which closely resemble fresh water clams. Masses of shells and animal remains were stratified and compacted upon the bottom of the sea by the untiring and never ending action of the water; and here they remained for vast periods of time. Finally, through an upheaval of the earth's crust, these deposits appeared above the sea level as limestone ridges and out-croppings. From a purely chemical standpoint there are two kinds of limestone, one is composed chiefly of carbonate of calcium while the other includes magnesium also. This latter with its high content of magnesium is known as dolomite limestone.

—Keith's Magazine.

A survey of the year, says a bulletin of E. B. Smith & Co, makes evident the fact that the period has been one of general and sustained business improvement in the United States. The economic recovery of the country has been real and substantial,—a record of accomplishment despite unparalleled conditions of practically world-wide financial disorganization and political chaos which might well have been expected to affect it in unforeseen ways.

At the beginning of the year, steel production was less than 30% of capacity, and only sufficient to keep the mills from closing down entirely. Operations have now expanded to fully 80% of capacity, and it is reported that the unfilled ton-

nage will enable the mills to maintain this capacity for the next ten months.

A great demand for steel has come from the building and automobile trades, both of which may be taken as illustrating the improvement in American industry. The total value of new construction for the year 1922 will exceed four billion dollars, and will be approximately 40% greater than the total figure of 1921, and about 30% greater than that of 1919, the previous high record.

The automotive industry established a new high record by producing about 45% more cars than last year, and about 15% more than in the previous record of 1920. This indeed indicates a buying power which augurs well for industry.

Of all the economic movements with which this country approaches the end of the year, there is probably none of greater importance than that which marks the position of the crops. The continued rise in grains has brought wheat to 30% above its low price of the year. Corn has risen 46% above its minimum price of 1922. Cotton likewise has shown a rise of 63% above its low level of the year. Thus these staple products of American agriculture are selling 20% to 60% in advance of the prices at the beginning of the year. But the fact that their recovery in price has been disproportionately small in comparison with the prices of other commodities serves to restrict the purchasing power of the farmer and to act as an obstacle to the greater prosperity of the country.

Any improvement which the close of the year finds in the railroad situation must be considered a splendid tribute to the skillful management on the part of the railway executives. In practically every great industry, economic conditions determine the demand for the product, its selling price and cost. In the case of the railroads, economic conditions determine the demand for the product, but legal requirements determine the selling price and in large measure the cost of production. Here lies the crux of the railroad problem.

Deflation of wages during the year has not occurred to any appreciable extent. In this connection, it is worthy of consideration that wages were not liquidated in the deflationary years of 1920 and 1921.

The fundamental change for the better in American business during 1922 has brought about an equally extensive change in security prices. Twenty-five representative industrial stocks are selling on an average of 35 points higher than in 1921. The current price of twenty-five railroad stocks is 20 points higher.

It was not until the Fall that the results of active business were first noticeable

in the form of satisfactory earning statements and increased or restored dividends. But in the securities markets, all of this had been anticipated and discounted by a prolonged rise. Accordingly, when the business revival had become a recognized fact in September and October the stock market abruptly fell and it cancelled in a short time its rise since last Spring. The reaction, however, was due to technical speculative conditions and since the low prices of November, the market has experienced a decided recovery, presaging healthy industrial activity for the ensuing months as well as reflecting progress which has been made.

As additional evidences of the decided changes in the course of the past twelve months there might be recorded the improvement in the banking position of the country, now at a point almost without parallel in the annals of American finance; the loadings of railway cars never before exceeded at this time of the year; the new high record for the year in American exports established during November.

During the year 1922, the European situation, apparently going from bad to worse, has so affected our domestic outlook as to interest our financiers and business men in seeking the solution of all European problems which obstruct the normal channels of international commerce and trade. A decided undertone of improvement is felt by many.

The outlook for the new year is far from discouraging. It is evident that the recovery of domestic business is still in full swing, and that the peak has not yet been attained.

On the other hand, it must be born in mind that this recovery of business in general is abnormal, and has to do with the after effects of the Great War. It must be remembered that international trade relationship is a necessity to America as well as to the nations of Europe.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.



Copy for Advertisements and  
Changes of Addresses and Tele-  
phone Numbers for the 1923  
Directory of the Architectural and  
Building Trades must be in our  
hands by January 8th, 1923,  
when forms close.

BUILDING NEWS  
PUBLISHING COMPANY

Perry Building, Philadelphia

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Phones—Bell, Spruce 1611,    Keystone, Main 7109



Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Repetition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.

We'll write your advertising without charge. All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

The BUILDERS' GUIDE is in its thirty-eighth year of continuous publication.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

I make it a rule never to write a grouchy letter—I telephone.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

You know what propaganda is, don't you? You know, too, how effective a weapon it is, if used properly, don't you? Well, advertising—honest, fair advertising—is the best propaganda we know of. Join the propagandists now! Advertise in the "Builders' Guide."

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

Many a man would do a better job if he didn't know about putty.—Ex.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co.,  
Otis Bldg., Phila.

## BANK PARTITIONS.

Weiss, George, Co., 1211 N. Mascher St., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop, 1520 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T., Narberth, Pa.  
Mitchell Bros., 2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CABINET WORK.

Weiss, George, & Co., 1211 Mascher St., Phila.

## CEMENT.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy, Merion Station, Pa.  
Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co., Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co., 133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## DAMP-PROOFING.

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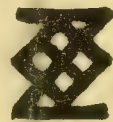


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Vol. XXXVIII, No. 2  
January 10, 1923

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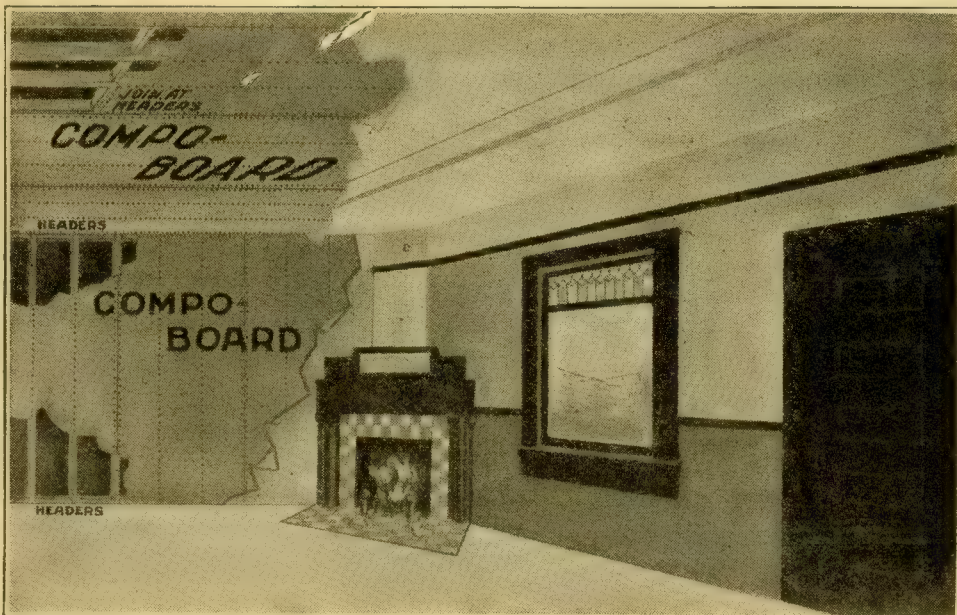
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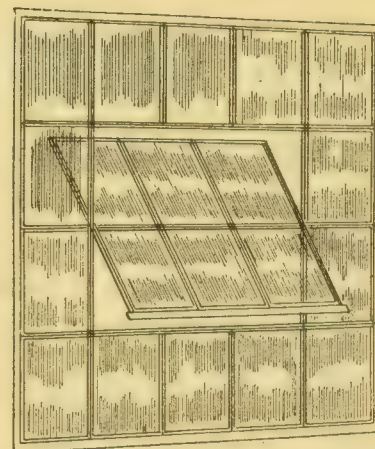
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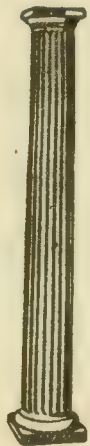
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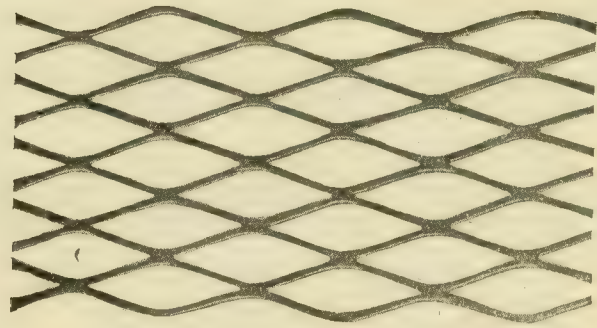
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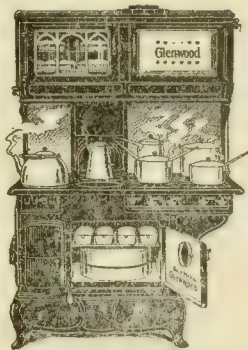
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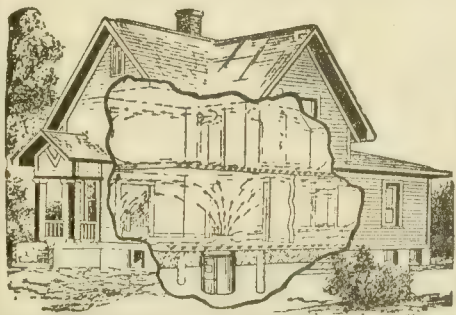
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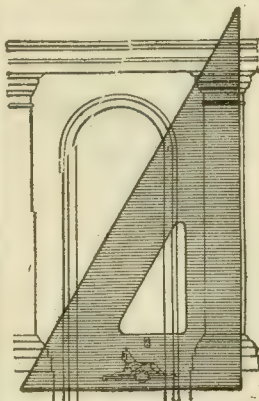
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades  
VOLUME XXXVIII  
Number 2  
PHILADELPHIA  
January 10, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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To all points in Europe..... 5.50 a year

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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



AT the beginning of a New Year it is interesting to consider what the prospects of prosperity are for the year before us. It is well to look forward, and, in a measure, be prepared to meet the problems and difficulties which will arise in the future. It is particularly valuable to obtain and digest the opinion of men rich in business experience whose judgments can be relied on as a guide for the future. Elbert H. Gary, chairman of the Board, United States Steel Corporation, draws some very enlightening conclusions for us in "Looking Forward by Looking Backward 20 Years" in *System*. Judge Gary asks:

Has the progression of this country been checked? Is it the part of wisdom to prepare against a long season of depression? Has the high point in general consumptive capacity been reached and must we anticipate a declining demand, or can we confidently look forward to increased production and prosperity during this year and the long future?

These are questions concerning which every careful man will give deliberate thought, and reach definite conclusions for a hesitating business cannot be satisfactory. During the last two years there has been some growth, but not sufficient. The increase in the savings bank deposits alone would demonstrate that the country as a whole has not slipped backward, although undoubtedly there have been in-

terruptions. Yet most of us have operated at less than capacity and profits have not been large or even fair. What does it all mean?

There is always with us a large group, possibly a majority, who look at every unfavorable symptom with the utmost pessimism, who say that there is no chance ahead; that everything is dark; that we cannot hope to go forward farther; and that we shall be lucky if we hold what we have. With these views I cannot agree. I have heard the same thing too often. Those who judge the condition of business by their emotions rather than by the law of supply and demand inevitably conclude that every depression is permanent. And there are others who take every boom to be the attainment of enduring prosperity.

The record of the last 20 years shows that while, with our present knowledge of business, we do not seem able wholly to prevent either depressions or inflation, the line of progress in the volume of goods consumed is rising. In the long swing of events the dips are purely transitory and all but negligible. They have been important only at the moment.

The capacity for making steel in this country has more than doubled in the last 20 years, which means roughly that the capacity of the people to use steel has doubled. During the same period the population has not doubled. It is per-

haps fair to take steel as an index to the consumption of goods in general.

We are not usually able to supply all of the goods that mankind needs. We have only temporarily been able to supply more than it could buy. The population of this country is growing, which means that its capacity to consume is increasing.

The individual is constantly acquiring more needs. We have the natural development of luxuries into necessities, as for instance steam heat in residences, and we have the development of facilities for increasing the efficacy of the individual, as for instance the automobile. Each one brings with it the opening of a new industry, a new and larger purchasing power, and the demand for more goods. Twenty years ago, to take the most familiar example, the making of automobiles was scarcely an industry. We all know what it is today.

Steel, of course, forms a relatively insignificant part of a woman's corset, yet the making of corsets annually absorbs many thousands of tons of steel. It is truly astounding how small changes in modes of life create demands on industry. There is no economic reason why this should be less in the future than in the past.

A big city seems to build more slowly than a mining town; but actually the consumption per capita of everything in the city, where the average income of

**DRAWING  
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the individual is relatively high, is greater than in the mining town. In like manner every man is justified in making plans for the future extension of his business in accordance with his capital resources and no other sort of expansion is ever justified.

We are carrying a very heavy governmental financial burden which will not soon be fully discharged. We must reckon for some time to come on taxes that will be none too easy to bear. Substantial addition to the present burden of taxation might be crushing. This is realized by the president and his associates and they are ably endeavoring to lighten the load. But until a large part at least of the cost of the war is paid, no amount of governmental economy can reduce taxes to a point where they will not have to be seriously reckoned with. Industry has proved that it can function under the present burden, but if new weights are added through oppressive laws, then the future is in doubt.

I cannot see other than good business ahead, provided natural economic progress is not interfered with. The greatest danger to the consistent and logical development of the country is in the possibility that attempts may be made to substitute unwise and sometimes vicious laws of man for the laws of Nature, thereby interrupting the even movement of supply and demand.

The natural law of supply and demand should not be interfered with by the Government or by any administrator of the laws excepting in cases involving turpitude, and this applies to every business transaction and all who are involved in the transaction. Only a little while ago when the war was on, this law had to be suspended because neither the supply nor the demand arose from natural causes—they had to bow to the exigencies of war. Some were even heard to say that Nature's laws could permanently be suspended. Everything that has happened since the war goes to prove otherwise—to prove that only as the law of supply and demand is permitted to operate can a country and its citizens soundly prosper. Serious trouble or disaster has followed every contrary course.

It is to me unthinkable that we should rear in this country any aristocracy of special privilege, whether that aristocracy be made up of those who sell the use of their hands, their brains, or their money. I am strongly opposed to special privilege of any kind. The progress and prosperity of no nation can long endure if any factor in economic life shall be especially favored or punished or exempted.

#### *Laws That Add to the Cost of Production*

Equality before the law is fundamental to industrial peace and prosperity. Yet

the disposition seems to be to pass laws which in a degree exempt labor organizations and farmer associations from governmental investigation, supervision, and control against wrong. Not only are they exempted from certain restrictive provisions of the existing statutes, but they are affirmatively permitted to do certain things prohibited to other groups of citizens.

To permit labor associations or farmer organizations to do, as the result of combination, things that are claimed to be beneficial to them but which are denied to others is to create classes, to favor some of them and to injure the whole body politic. It tends to array class against class, and it naturally adds to the cost of production. And be it remembered, the general purchasing public, in the end, must pay the bills. This, as a net result, is certain. This is not equal opportunity and equal obligation.

I willingly admit as to labor, towards which no one has better intentions than I have, that in the long past, as the result of class existence, it was not justly treated. Also, I know by experience and otherwise that the farmers, the most essential element of our national life, have not as a rule received adequate financial returns on their investment and labor. Every fair and reasonable measure to overcome this should be encouraged.

There is no reason why any group should not organize to gain for itself a better economic position if it believes that through organization that position can be gained. But it is not in the public interest to permit any group secretly to expend large sums of money for subversive propaganda. The public is entitled to know the facts about the expenditures of money to influence public opinion. The public is entitled to the record of receipts and expenditures of every kind and character of organization; of every business corporation, of every labor union, of every association, whether or not it be formed for profit.

The surest and wisest of all regulation is public opinion, but sound opinions cannot be formed excepting on the facts. To deny to the public the right to investigate any organization is in effect to deny it the right to gain the facts on which to base a judgment. It is hardly possible to have serious industrial disturbance if all the facts are known. In the graver strikes of the last several years the facts have not been generally known.

Above everything else, strict observance of the criminal laws should be enforced.

The progress of prosperity has been halted by these strikes which could not have last so long in the face of an enlightened public opinion, and there will

(Continued on Page 30.)

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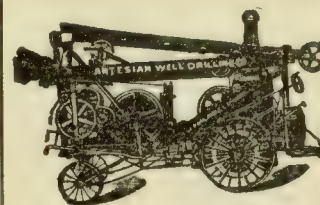
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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Church and Rectory**, Southwest Corner Twenty-first and Snyder avenue, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Edmund's Roman Catholic Church, Twenty-third and McKean streets. Brick, 1 and 3 stories, tile roof. Architect taking bids due January 18th at noon.

**Bank Building**, Forty-ninth and Baltimore avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Belmont Trust Co., care of architect. Architect taking bids due January 19th.

**Office Building**, 1805-07 Walnut street, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Presbyterian Ministers' Fund, care of architect. Sketches in progress. Too early for details.

**Stores and Apartments**, Rising Sun avenue, Lawndale, Philadelphia. Architect, John E. Sindoni, 1805 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 3 stories, irregular sizes, slag roof, hardwood floors, electric lighting, metal bulks, plate glass. Preliminary plans in progress.

**Residences (22)**, Cobb's Creek Boulevard, Philadelphia. Architect, John E. Sindoni, 1805 South Sixteenth street, Philadelphia. Owner, H. Barkan, 1520 South Sixth street, Philadelphia. Brick, 2 stories, 16x60 feet, slag and tile roof, hardwood floors, hot water heating, electric lighting, tile work, galvanized iron work, garages in basements, cement work. Architect and owner taking sub-bids.

**Store and Apartments (2)**, 1103-05 Lindley avenue, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 2 stories, 18x60 feet, slag roof, hardwood floors, hot water heating, electric light, tile and marble work, metal bulks, plate glass. Architect is taking sub-bids.

**Store Building**, 1126 Chestnut street, Philadelphia. Architects, Buchman & Kahn, 56 West Forty-fifth street, New York City. Owners, Oppenheim, Collins & Co., care of Mr. Whelan, 1207 Chestnut street, Philadelphia. Brick, stone and steel, 6 stories, 48x230 feet, slag roof, hardwood-concrete floors, hollow tile, elevators, steam heating, electric light-

ing, metal lath, tile and marble work, fire doors. Plans in progress. Will be ready for bids in six weeks.

**Stores (3), Apartments (6)**, 7220-22-24 Woodland avenue, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, name withheld. Brick, 3 stories, 15x81 feet, and (1) 20x80 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work, marble work, metal bulks, plate glass. Plans in progress. Architect will be ready for bids in one week.

**Administration Building and Laboratory**, Northeast Sewage Works, Richmond street and Delaware River, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Surveys, Director F. H. Caven, 216 City Hall, Philadelphia. Tapestry, brick, concrete and steel. Plans in progress.

**Building (alts.)**, 617-19 Arch street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Charles Bond Co., on premises. New front, interior alterations. Plans about completed. Architect will take bids in a few days.

**Store Building (alts. and add.)**, 1634 Ridge avenue, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, S. Weiss, care of architect. Brick, general renovation. Architect will take bids in spring of 1923.

**Hanover Playground**, East Columbia avenue, Earl and Livingston streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, City Hall, Philadelphia. Plans in progress. Owners will be ready for bids in one week.

**Residence**, 825 Carpenter street, Philadelphia. Architects, MacKenzie & Wildey, Liberty Building, Philadelphia. Owners, name withheld. Brick, 2 stories, 25x60 feet, slate and slag roof, composition, pine and hardwood floors, hot water heating, electric lighting, tile work. Architects will be ready for bids in one week.

**Residences (twin) (2) and Single Residence**, Shawnee street, near Chestnut Hill avenue, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owners, name withheld. Hollow tile and stucco, 2½ stories, 19x42 feet each, concrete tile roof, hardwood floors, vapor heating, electric lighting, tile work. Architect ready for sub-bids.

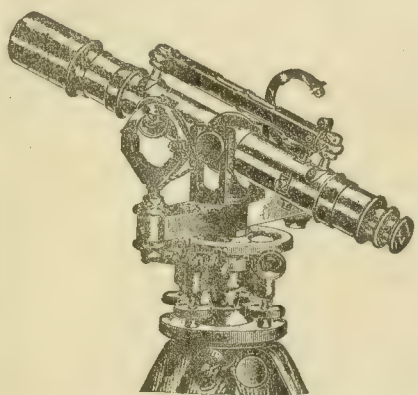
**Residence and Garage**, Emlen and Sedgwick streets, Philadelphia, \$12,000. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, W. P. Brown, care of architect. Brick, hollow tile and stucco, 2½ stories, 25x42 feet, 1 story, 10x20 feet, shingle roof, hardwood and cement floors, tile work, electric lighting, vapor heating. Architect will take bids in a few days.

**Stores (5) and Apartments (10)**, Germantown and Mt. Pleasant avenues, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, J. S. Silver, 1 above Tioga street, Philadelphia. Brick, 3 stories, 20x72 feet and 20x64 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work, metal bulks, plate glass. Owner and architect will take sub-bids in a few days.

**Store (alts.)**, Ridge avenue and Green street, Philadelphia. Architect, private plans. Owner, Robert Rosenberg, Harrisburg, Pa. Lowering first floor of Linden Apartments for store. Benjamin E. Satler, Land Title Building, Philadelphia, is taking sub-bids due as soon as possible.

**Residences (alts.) to Store**, Franklin and Noble streets. Architect, private plans. Owner, Benjamin E. Satler, Land Title Building, Philadelphia. General interior alterations. Owner is taking sub-bids due as soon as possible.

**Residences (46)**, Sixty-fifth and Diamond streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John J. Marshall, 1115 Marlyn road, Philadelphia. Stone and brick, 2 stories, 20x35 feet, slate, slag and tin roof, hardwood floors, cement work, hot water heating, electric lighting, metal lath, tile and marble work, garages in basements. Owner is taking sub-bids.



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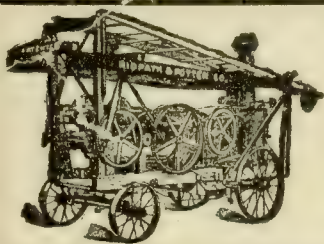
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**Residences (30)**, Twentieth street and Sixty-sixth avenue, Oak Lane, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank D. Williams, Sixty-sixth avenue and Ogontz avenue, Philadelphia. Brick and stucco, 2 stories, 18x30 feet and 16x40 feet, slate, slag and tin roof, hot water heating, electric lighting, hardwood floors, tile and marble work, cement work. Owner is taking sub-bids.

**English Village**, Twenty-second and Chancellor streets, Philadelphia. Architect, Spencer Roberts, 10 South Eighteenth street, Philadelphia. Owners, David Coons, Tenth and Market streets, and F. G. Stewart, 1619 Sansom street, Philadelphia. Brick, cut stone and stucco, 2½ stories, irregular sizes, slate and slag roof, oak and pine floors, central heating plant, electric lighting, tile and marble work. Frank G. Stewart, 1619 Sansom street, taking sub-bids.

**Children's Department**, Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Works, Bureau of Health, City Hall, Philadelphia. Brick, cut stone, steel, concrete and stucco, (6) cottages, 1 story, 91x31 feet, wing 40x30 feet each, refectory, 2 stories, 74x50 feet, slag and asbestos shingle roof, granolithic floors, hollow tile, metal weather strip, iron work, metal lath, tile and marble work, rolled steel skylights. Owners taking bids due January 22nd.

**Stable (add.)**, Hunting Park and Torresdale avenues, Philadelphia. Architect, Walter E. Timm, Perry Building, Philadelphia. Owners, Harbison's Dairies, Front and Diamond streets. Brick and steel, 1 story, 15x17 feet, slag roof, concrete floors, terra cotta, iron work, floor hardener, bond, rolled steel sash (electric lighting, plumbing and sprinklers separate bids.) Architect taking bids due January 15th.

**Shop (add.)**, 4339 Germantown avenue, Philadelphia. Architect, private plans. Owner, M. Chessman, on premises. Brick, 1 story, 16x40 feet, slag roof, pine floors, painting, glazing, electric work, stair work. Owner taking bids due as soon as possible.

**Residence and Store (alts.)**, Southwest Corner Camac and Norris streets. Architect, private plans. Owner, Miss Rubin, on premises. Brick work, sheet metal work, plate glass, painting, slag roof, pine and hardwood floors, electric work. Owner is taking bid due as soon as possible.

**Stores (2)**, Northwest Corner Seventeenth and Green streets, Philadelphia. Architect, private plans. Owner, N. Taplinger, 901 Commonwealth Building, Philadelphia. Brick, 1 story, slag roof, cement work, electric lighting, tile and iron work, sheet metal work,

plate glass, mill work, painting, glazing. Owner taking revised bid due as soon as possible.

**Building (alts. and add.)**, 233 South Eleventh street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, David D. Sempliner, 1305 Walnut street, Philadelphia. Brick, cut stone and stucco work, carpentry, mill work, hardware, pine and oak floors, plastering, iron work. Architects taking bids due January 12th.

**Apartment (alts. and add.)**, 3908 Baltimore avenue, \$20,000. Architect, private plans. Owner, A. Leiberman, 4045 Baltimore avenue, Philadelphia. Brick, 3 stories, 34x21 feet and 34x39 feet, slag roof, oak and pine floors, tile work, electric lighting, general alterations. Owner will build.

**Residences (44) and Residence and Store (1)**, Lansdowne avenue, Sixty-seventh street, Edgemoore and Media street, \$228,800. Architect, private plans. Owner, Pompey Ansesll, 6503 Rawn street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (2)**, East side Glenlock street, North of Tyson, and (2) Knorr street, West of Roosevelt Boulevard, \$4,000 each. Architect, private plans. Owner, J. W. Orr, Bustleton and Knorr streets, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, electric lighting. Owner will build.

**Garage**, 513 High street, Philadelphia, \$2,000. Architect, private plans. Owner, Almino Frunzi, on premises. Stone, 1 story, 38x72 feet, cement floors, electric lighting. Owner will build.

**Residence and Store (alts. and add.)**, 4900 Parrish street, \$2,000. Architect, private plans. Owners, Luckner & Kohen, 5136 Parkside avenue, Philadelphia. Brick, 2 stories, 10x15 feet, slag roof, pine floors, general alterations. Owner will build.

**Store (alts.)**, 5947 Market street, Philadelphia. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Architect taking bids due January 11th.

**Miscellaneous Work**, Philadelphia. Owners, Department of Public Works, Bureau of Surveys, City Hall. Owners taking bids due January 17th at noon. Installing electric flood lighting system at Pennypack Creek Sewerage Disposal Plant, 16 high power flood lights, 5 35-foot cedar poles, braces, wire, etc. Building creosoted wood walks over Sedimentation Tanks at North East Sewerage Plant. About 3,312 feet walks various widths. Constructing the 40th Ward lowland open sewer and drainage ditch. 2,700 feet of open ditch, 53 feet wide by 10 feet deep. Ditch to be reinforced concrete sides and bottom with a 2-foot high curbing at top with wood fence on top of curbing. Construction of 4

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**Residence and Store** (alts. and add.), Northwest Corner Twenty-first and Berks streets, \$5,000. Architect, private plans. Owners, Samuel Wohlfeld and Harry Slass, 1809 North Seventh street. Brick, 1 story, 16x14 feet, slag roof, electric light, general alterations. Owner will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Store** (alts.), 1818 West Norris street, Philadelphia. Architect, private plans. Owner, H. Rosenweizer, 4345 Germantown avenue, Philadelphia. Carpentry, mill work, plastering, painting, electric work, plate glass, flush bulks. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, Philadelphia.

**Telephone Exchange**, Emerald and Sargent streets, Philadelphia, \$300,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel and reinforced concrete, 3 stories and basement, 107x156 feet, slag roof, cement floors, metal lath, waterproofing, steam heating, electric lighting, tile and marble work. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Manufacturing Building**, Northwest Corner Twelfth and Jackson streets, Philadelphia. Architect, private plans. Owners, William F. Read & Sons Co., 1218 Snyder avenue, Philadelphia. Brick, reinforced concrete and steel, 5 stories, 65x70 feet, slag roof, cement floors, elevators, iron work, concrete stairs, fire doors, rolled steel sash, metal skylights, steam heating, electric lighting, sprinkler system. Contract awarded to William F. Newbery Co., Otis Building, Philadelphia.

**Kitchen Wing**, House of Correction, Holmesburg, \$28,500. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, City Hall. Brick, concrete and steel, 1 story, 75x115 feet, Barrett roof, concrete and pine floors, metal lath, roof ventilators, iron work, floor hardener, rolled steel skylights. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Sunday School** (alts. and add.), Southeast Corner Cheltenham avenue and Limekiln Pike, Philadelphia, \$33,000. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Covenant Presbyterian Church, on premises. Brick, cut stone, 2 stories, 26x29 feet, slag roof, composition, cement and pine floors, waterproofing, iron work, bond. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

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**Store** (alts. and add.), 267 South Fifty-second street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Albert M. Laskin, on premises. Brick and cut stone, 2 stories, 16x13 feet, slag roof, pine and oak floors, demolition, hot water heating, electric lighting, tile and marble work, bond, iron work. Contract awarded to Belinsky Brothers, 2630 South Ninth street.

**Building** (alts. and add.), 2047 Chestnut street, Philadelphia, \$4,500. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Harry Sharp, care of Davis Phillips, Lincoln Building, Philadelphia. General alterations, add. brick, 1 story, 5x16 feet, slag roof, hardwood and maple floors, plastering, plumbing, heating, electric work, flush bulks. Contract awarded to Samuel Yellin, 3125 Montgomery avenue.

**Factory**, Southwest Corner Tenth and Susquehanna avenue, \$35,000. Architect, private plans. Owners, American Cone & Pretzel Co., Widener Building, Philadelphia. Brick, 3 stories, 83x81 feet, slag roof, cement floors, elevators, steam heating, electric lighting. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Rebuilding Shelter**, over coal pockets, between Berks and Norris streets, East of P. G. N. and Elevated and P. & R. R. R. Architect, private plans. Owners, Philadelphia & Reading R. R. Co, Reading Terminal, Philadelphia. Carpentry, mill work, 46x450 feet, slag roof, bond, iron work. Contract awarded to Charles C. Pace, Merion, Pa.

**Building**, Eighteenth and Shamokin streets, Philadelphia. Architect, private plans. Owners, Electric Power Equipment Corp., Thirteenth and Wood streets. Brick, steel and reinforced concrete, 2 stories, 60x72 feet and 48x72 feet, slag roof, cement floors, electric lighting. Contract awarded to John N. Gill Const. Co., Otis Building.

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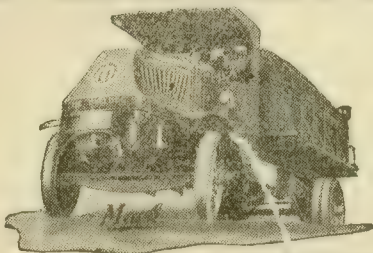
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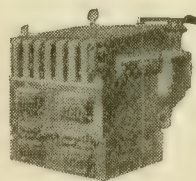
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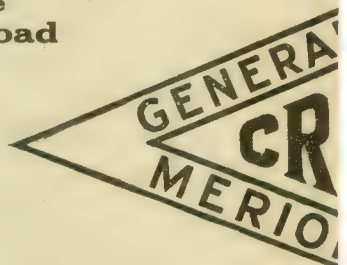
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**Garage**, Fountain street, East of Camac street, \$15,000. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, A. T. Baker & Co., Manayunk, Philadelphia. Brick, 1 story, 50x50 feet, slag roof, steam heat, electric work, cement floors, steel sash. Contract awarded to Barclay White Co., 1713 Sansom street.

**Store and Factory (alts.)**, 728-30 Arch street, Philadelphia, \$6,000. Architect, Herman H. Kline, 717 Bulletin Building, Philadelphia. Owner, Joseph Mogul, 730 Arch street, Philadelphia. Carpentry, mill work, plastering, painting, glazing, brick work, alterations. Contract awarded to S. Mogul, 2116 South Seventh street, Philadelphia.

**Residences (2)**, 7108-10 North Broad street, Philadelphia, \$16,000. Architect, private plans. Owner, Sol. Frank, 4626 North Marvine street, Philadelphia. Brick, 2 stories, 17x81 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Alex. Frank, 4626 North Marvine street.

**Residences (2)**, South side Carpenter street, East of Greene street, \$9,800. Architect, private plans. Owner, Mr. Balbirnie, Cheltenham and Wayne avenues, Philadelphia. Stone, 3 stories, 17x44 feet, 13x8 feet, slate roof, hardwood and pine floors, electric light, hot water heat. Contract awarded to Charles M. Russ, 504 Harvey street, Philadelphia.

**Residences (9)**, South side Pennsdale street, East of Mitchell, \$5,800 each. Architect, private plans. Owner, Max Meitner, 465 Queen

Lane, Philadelphia. Brick, 2 stories, 15x30 feet, 11x9 feet and 15x38 feet, slag roof, electric lighting, oak and pine floors. Contract awarded to C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia.

**Storage**, Northwest Corner Eighteenth and Courtland streets, Philadelphia, \$4,500. Architect, private plans. Owners, Friedberger-Aaron Mfg. Co., on premises. Brick, second story add., 19x44 feet, slag roof, electric lighting. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Boiler and Storage House**, 281 East Ashmead street, \$4,000. Architect, private plans. Owners, J. Turner & Co., on premises. Iron, 1 story, 15x50 feet, corrugated iron roof and siding. Contract awarded to Robert B. Lederle, Witherspoon Building, Philadelphia.

**Trestle**, East side P. & R. Ry., South of Venango street, \$3,500. Architect, private plans. Owners, Tomkins Brothers, Rising Sun avenue and P. and R. Ry. Structural steel. Contract awarded to Albert H. Moorshead, 67 Laurel street, Philadelphia.

**Residence and Store (alts.)**, 505 South Fifty-second street, \$3,400. Architect, private plans. Owner, A. Gamberg, 5314 Market street, Philadelphia. Carpentry, mill work, plate glass, bulk windows, painting. Contract awarded to S. Kravitz, 535 South Fifty-seventh street, Philadelphia.

**Residence and Store (alts. and add.)**, 836 South Second street, \$3,800. Architect, private plans. Owner, Francis B. Goldstein, on premises. Brick, 2 stories, 14x15 feet, slag

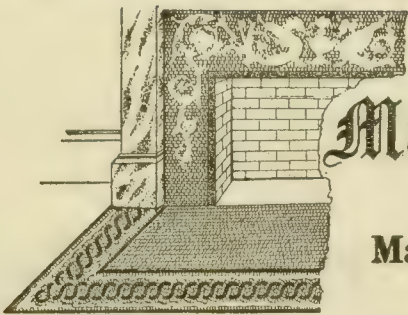
roof, pine floors, electric work. Contract awarded to Harry Harad, 1621 Point Breeze avenue.

**Apartments (fire repairs)**, 451 Green lane, Philadelphia, \$2,000. Architect, private plans. Owner, Miss Sara A. Borard, 451 Green lane, Philadelphia. Carpentry, mill work, plastering, general fire repairs. Contract awarded to William H. Eddleman & Son, 453 Green lane, Philadelphia.

**Manufacturing Building**, Southwest Corner Hancock and Westmoreland streets, Philadelphia, \$100,000. Architect, private plans. Owners, Art Loom Rug Co., Mascher and Westmoreland streets. Brick and steel, 1 story, 140x236 feet, slag roof, steam heat, electric light, cement floors, steel sash. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Apartment House (alts.)**, 90 East Johnson street, Germantown, \$10,000. Architect, private plans. Owner, Henry W. Scarborough, 1207 Lincoln Building, Philadelphia. Carpentry, mill work, painting, glazing, plastering, hardware, tile work, electric lighting, general alterations. Contract awarded to William Cooper, 5308 Wakefield street, Philadelphia.

**Store and Rooming House (alts. and add.)**, 606 South Sixtieth street, \$4,000. Architect, private plans. Owners, Hanscom Brothers, 734 Market street, Philadelphia. Brick, 2 stories, 12x12 feet, slag roof, pine floors, electric light. Contract awarded to William P. Woodley, 6004 Hazelhurst street.



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# PENNSYLVANIA

## Construction News

**Foundry Building and Machine Shop**, Reading, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Reading Hardware Co., Reading, Pa. Reinforced concrete, 7 stories, 80x250 feet. Architects taking bids due January 18th at noon.

**High School**, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School District of Jenkintown, Ray Ammerman, secretary, Jenkintown, Pa. Brick, cut stone, 2 stories, 188x60 feet, wing 64x35 feet, slate roof, cement, composition and pine floors, hollow tile, metal lath, rolled steel skylights, tin clad doors, ornamental iron work (heating, ventilating and electric work reserved). Architects taking bids due January 30th at 4 P. M.

**Residence**, Kirklyn, Pa. Architect, private plans. Owner, John Donahue, Post Office Building, Upper Darby, Pa. Stone and stucco, 2½ stories, 25x35 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will build in spring of 1923.

**Bank and Office Building**, Hazleton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Hazleton National Bank, D. C. Kunkel, Hazleton, Pa. Brick, stone, steel and concrete, 8 stories. Preliminary plans in progress. Too early for details.

**Moose Home (alts. and add.)**, Tamaqua, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owners, L. O. O. M., Tamaqua Council, Tamaqua, Pa. Brick. Sketches being prepared. Architect will be ready for bids in two weeks.

**Residence**, York road, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Dr. Fred. Happman, care of architect. Stone, 1½ stories, 50x60 feet, shingle roof, hardwood floors, electric lighting, tile work. Plans in progress.

**Hospital (alts. and add.)**, Sixth street, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Homeopathic Hospital, C. E. Keppy, chairman Building Committee, Reading, Pa. Architects selected.

**Sunday School and Parsonage (add.)**, Mifflinburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Evangelical Lutheran Church, care of archi-

teets. Brick. Architects selected.

**Church and Sunday School (alts. and add.)**, Danville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Lutheran Church, Rev. E. D. S. Boyer, Danville. Brick. Architects selected.

**Hospital (add.)**, Walnut street, Reading, Pa. Architect, Fred. Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Hospital, Walnut and Birch streets, Reading. Architects selected.

**Club**, Reading, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, L. O. O. M., Lodge No. 155, F. N. Glass, Reading, Pa. Brick, steel, 4 stories, 75x270 feet, slag roof, hardwood floors, electric light, metal lath, tile and marble work, roof ventilators, skydights, ornamental iron work. Plans in progress.

**Church**, West King street, York, Pa. Architect, not yet selected. Owners, St. Paul's United Evangelical Church, York, Pa. Work contemplated. Architect not selected.

**Residence**, Penfield, Pa. Architect, J. Wilmer Thompson, 703 South Sixtieth street, Philadelphia. Owner, George Jackson, 1647 North Robinson street, Philadelphia. Stone and stucco, 2½ stories, 26x40 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will take bids in three weeks.

**Club House (add.)**, West Chester, Pa. Architect, William Corcoran, West Chester, Pa. Owners, New Century Club, care of F. Martin, Dean street, West Chester, Pa. Hollow tile and stucco, 2 stories, 18x30 feet, shingle roof, pine floors. Plans in progress. Architect will take bids in March.

**Residences (6)**, Bryn Mawr, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, Frank H. Mahan, Ardmore, Pa. Hollow tile and stucco, 2½ stories, 30x20 feet, slate and shingle roof, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**Residences (4) Twin (2) Shingle**, Ardmore, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, Frank H. Mahan, Ardmore, Pa. Stone, frame and plastering, stone and stucco, 2½ stories, various sizes, slate and shingle roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will build.

**Creamery and Apartment**, West Chester, Pa. Architect, William Corcoran, 732 North Walnut street, West Chester, Pa. Owner, Edgar Eachus, Bradford avenue, West Chester,

Pa. Hollow tile and stucco, 2 stories, 50x30 feet, asbestos roof, pine floors, steam heat, electric light, rolled steel sash. Plans in progress. Architect will take bids February 1st.

**Country Club**, Kennett Square, Pa. Architect, William Corcoran, West Chester, Pa. Owners, Kennett Square Golf Country Club, care of G. B. Scarlett, Kennett Square, Pa. Local stone, 1½ stories, 66x34 feet, asbestos shingle roof, oak floors, steam heating, electric lighting. Plans about completed. Architect will be ready for bids January 15th.

**Residence**, West Chester, Pa. Architect, William Corcoran, West Chester, Pa. Owner, Henry W. Moore, West Chester, Pa. Hollow tile and stucco, 2½ stories, 80x36 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids March 1st.

**Stores and Club Rooms (2)**, West Chester, Pa. Architect, William Corcoran, West Chester, Pa. Owner, Mrs. Henry C. Haines, Market and Church streets, West Chester, Pa. Brick, 3 stories, 85x25 feet, slag roof, oak and pine floors, metal bulks, plate glass, marble work, electric lighting, central heating. Plans in progress. Architect will take bids March 1st.

**Residence**, West Chester, Pa. Architect, William Corcoran, West Chester, Pa. Owner, John Speer, Jr., 123 West Minor street, West Chester, Pa. Stone and slate, 2 stories, 35x40 feet, slate roof, oak floors, cement floors, hot water heating, electric lighting, tile work, cement work. Architect will take new bids in March.

**Residence**, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Ellis Lewis, 658 Linden avenue, York, Pa. Hollow tile and stucco. Sketches in progress.

**Residence and Store**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, William Benn, 714 South Queen street, Lancaster, Pa. Brick, 3 stories, 32x60 feet, slate roof, pine floors, hot water heating. Plans in progress.

**Inn**, Caledonia, Franklin County, Pa. Architects, Stair & Johnson, Spooner Building, Harrisburg, Pa. Owner, R. C. Miller, Gettysburg, Pa. Frame, 2 stories, 30x65 feet, shingle roof, hardwood floors, steam heat, electric light. Plans in progress.

**Convent**, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Parish, Father Breckel, York, Pa. Brick, 2½ stories, 30x60 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

**Residence and Garage**, Rydal, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Ralph Morgan, 1106 Chestnut street, Philadelphia. Brick and stucco, 2½ stories, 75x28 feet, shingle roof, oak floors, hot water or vapor heating, elec-

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tric lighting, tile work. Plans in progress. Architects will take sub-bids.

**School**, Millmont, Reading, Pa. Architect, Fred. Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, Reading School Board, O. B. Heim, secretary, Reading, Pa. Fireproof, 2 stories, 8 rooms, slag roof, hardwood floors (heating and electric work reserved). Owners ready for bids.

**Residences (2)**, Honesdale, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, A. R. Pennell, Honesdale, Pa. Frame and stucco, 2½ stories, 32x36 feet, shingle roof, pine floors, hot water heat, electric lighting. Owner will build.

**Apartments (9)**, Sixth street, Harrisburg, Pa. Architect, private plans. Owner, I. Marcus, 264 Herr street, Harrisburg, Pa. Brick, 3 stories, 42x115 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Owner will take bids.

**Residence (alts. and add.)**, Villa Nova, Pa. Architect, Paul P. Cret, 112 South Sixteenth street, Philadelphia. Owner, W. W. Hepburn, Villa Nova, Pa. Brick, stucco and cut stone, 2½ stories, 26x19 feet, shingle roof, oak and pine floors, metal weather strips, iron work, bond, tile work, electric lighting. Architect taking bids due January 16th.

**Grand Stand (add.)**, Reading, Pa., \$100,000. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Reading Fair

Grounds, care of J. C. Schaeffer, Penn Side, Reading, Pa. Steel and concrete, 1 story, 200x60 feet, concrete floors, electric light. Owners taking bids.

**Club House (alts. and add.)**, **Locker Building and Caddy House**, Ashbourne, Pa. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Ashbourne Country Club, Ashbourne, Pa. Brick, steel, castone, cut stone and stucco, 2½ stories, 56x64 feet, 1 story, 36x64 feet, and 1 story, 40x12 feet, slate roof, maple and oak floors, metal weather strips, iron work, bond, tile and marble work, steam heating, electric lighting. Architect taking bids due January 12th.

**Bank**, Ephrata, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata National Bank, Mr. Weidman, president, Ephrata. Stone, 1 story, 53x90 feet, steam heat, electric light, hollow tile, tile work, metal lath, skylights, metal weather strips, bank fixtures. Architect will take revised bids January 14th.

**Residence**, Seventeenth and Forster streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owner, J. W. Appleby, 216 South Second street, Harrisburg, Pa. Stone and stucco, 2½ stories, 60x29 feet, slate roof, composition and oak floors, electric light, tile work. Architect taking bids due January 16th.

**Church and Parsonage**, Emaus, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Lutheran Church, Rev. J. S. Savacool, Emaus. Stone, 2½ stories and basement, 107x48 feet, slate roof, cement floors, metal lath, electric light, cast stone trim, structural steel and cast iron. Owners aking bids due January 17th at 6 P. M.

**School**, Green Tree, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School Board of Willistown Township, Pa. Stone, 2 stories, 38x88 feet. Architect taking approximate bids due as soon as possible.

## Pennsylvania

### Contracts Awarded

**Bank Building**, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, First National Bank, York, Pa. Brick, steel, granite and reinforced concrete, 3 stories and basement, 103x35 feet, built-up asphalt roof, cement and cork floors, metal lath, roof ventilators, waterproofing, damp-proofing, terra cotta, iron work, floor hardener, bank fixtures, hollow metal sash and doors, rolled steel skylights, tile and marble work, demolition, steam heating, electric lighting. Contract awarded to Cogswell-Koether Co., 406 Park avenue, Baltimore, Md.

**Residence**, Wallingsford, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Mrs. A. T. Wirz, Wallingford, Pa. Brick, frame and cut stone, 2½ stories, 25x53 feet and 44x29 feet, shingle roof, oak and pine floors, metal lath, iron work, bond, tile work (hot air heating, electric lighting reserved). Contract awarded to William Provost, Jr., Chester, Pa.

**Residence**, Wallingford, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, A. H. Wirz, Chester, Pa. Stone and

frame, 2½ stories, 104x30 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to William Provost, Jr., Chester, Pa.

## New Jersey Construction News

**Administration Building and Assembly Building**, Elizabeth, N. J. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, American Type Founders Co., R. W. Nelson, president, Communipaw avenue, Jersey City, N. J. Brick, steel and concrete, 1 and 2 stories, 165x600 feet. Plans in progress. Too early for details.

**Residence and Garage**, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, Miss E. Kile, Guarantee Trust Building, Atlantic City. Frame, 2 stories, 24x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residences (125)**, Margate City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owners, F. Pedrick & Son, Portland and Atlantic avenues, Atlantic City, N. J. Details undecided. Plans in progress.

**Parochial School**, Seventh and Federal streets, Camden, N. J., \$150,000. Architect, F. Ferdinand Duran, 1220 Locust street, Philadelphia. Owners, Immaculate Conception Roman Catholic Church, care of Rev. J. Fitzgerald, Camden, N. J. Stone, 2 stories and basement, 110x65 feet, slag roof, pine floors, steam heat, electric light, iron work. Plans in progress. Architect will be ready for bids in six weeks.

**School**, Oaklyn, N. J., \$50,000. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Oaklyn School District, Adolph Jost, Oaklyn, N. J. Brick and frame, 1 story, 58x146 feet, slate and slag roof, pine floors, unit system of heating, electric lighting. Plans in progress. Architect will take bids in ten days.

**Bungalow**, Palmyra, N. J. Architect, B. Rush Stevens, Jr., 1737 Filbert street, Philadelphia. Owner, Stewart L. N. Fields, Palmyra, N. J. Frame and stucco, 1½ stories, 35x30 feet, shingle roof, pine floors, metal lath, vapor heating, electric light, tile work. Plans in progress.

**Telephone Exchange**, Merchantville, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia, Pa. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, 1 story, 60x75 feet, slag roof, steam heat, electric lighting. Plans in progress.

**Telephone Exchange**, Collingswood, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, 1 story, 60x75 feet, slag roof, electric lighting, steam heating. Plans in progress.

**Hospital (alts. and add.)**, Brunswick street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Orthopedic Hospital, Dr. Ernest, Montgomery and Front streets, Trenton, N. J. Brick. Too early for details. Architect selected.

**Store (add.)**, Broad street, Trenton, N. J. Architect, William Klemann, First National

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Bank Building, Trenton. Owners, Philadelphia Bargain Store, 25 South Broad street, Trenton, N. J. Brick, steel, 1 story, 80x100 feet, slag roof, pine floors, electric light. Plans in progress.

**Store**, North Broad street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Julius Schafer, care of architect. Fireproof, brick, steel, reinforced concrete, 5 stories, 125x27 feet, slag roof, concrete floors, hot water heat, electric light, tile work, rolled steel sash and skylights, metal lath, elevators, roof ventilators, terra cotta front. Plans in progress. Architect will be ready for bids next week.

**Residence**, Ventnor, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, A. Rosenstein, 21 North Oakland avenue, Atlantic City. Frame, 2 stories, 60x30 feet, slate roof, hardwood floors, electric light, tile work. Architect taking bids due January 13th.

**Apartment Hotel**, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, C. F. Hildebrecht, care of architect. Fireproof, steel, reinforced concrete, 7 stories, 65x110 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, rolled steel sash and skylights, metal lath, freight and passenger elevators, roof ventilators, terra cotta. Plans in progress. Architect will be ready for bids next week.

**Bungalows (75)**, Maple Shade, N. J. Architect, private plans. Owners, Barlow & Co., Thomas Barlow, Jr., Maple Shade, N. J. Frame, 1½ stories, various sizes, average 24x36 feet, flexotile roof, pine floors, pipeless heaters, electric lighting. Owners are building.

**Residences (25)**, Lenola, N. J. Architect, private plans. Owners, Barlow & Co., Maple Shade, N. J. Frame, 1½ stories, 24x36 feet, flexotile roof, pine floors, pipeless heater, electric lighting. Owners will build.

**Residences (25)**, Merchantville, N. J. Architect, private plans. Owners, Barlow & Co., Maple Shade, N. J. Frame, 1½ stories, flexotile roof, pine floors, 24x36 feet, electric lighting, pipeless heaters. Owners will build.

**Apartments (2)**, Bartram and Ventnor avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Max Grossman, South Faber avenue, Atlantic City, N. J. Brick, stone, steel, 3 stories, 34x50 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal lath, waterproofing, dampproof-

ing, ornamental iron work. Architect taking bids due January 12th.

**Theatre (alts.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Grand Theatre, care of Walter Reade, Savoy Theatre, 112 West Thirty-fourth street, New York City. General alterations, wood and tile floors, tile and marble work, interior decorations, kalamein doors, plumbing, ornamental plaster. Architect taking bids due as soon as possible.

**Apartment**, South Maryland avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, S. Dolinsky, 2 North Vermont avenue, Atlantic City, N. J. Brick, 3 stories, 40x82 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Cottages (2)**, Ventnor, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owners, E. Miller Co., care of architect. Frame, 2 stories, 22x37 feet, asphalt shingle roof, hardwood floors, electric light, tile work. Owner will build.

**Residence**, Riverton, N. J. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, J. D. Eisele, Riverton, N. J. Frame and stucco, 2 stories, 36x50 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Architect will take bids in one week.

**Store (alts.)**, 1102 Broadway, Camden, N. J. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, J. Galanter, on premises. Brick work, carpentry, mill work, painting, glazing, oak floors, electric lighting, plastering, tile and marble work, bond. Architect taking bids due as soon as possible.

## New Jersey Contracts Awarded

**Elks' Club**, Fowler street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, I. B. P. O. E., Sunlight Lodge No. 114, Mr. F. Kinney, 120 North Warren street, Trenton, N. J. Brick, steel, 1 story, 60x80 feet, slag roof, maple floors, hollow tile, metal lath, steam heat, electric light, tile and marble work. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

**Residence**, Ventnor, N. J. Architect, H. A.

Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Hon. Walter E. Edge, 170 South Pennsylvania avenue, Atlantic City. Brick and frame, 2½ stories and basement, 43x102 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile and marble work, elevators. Contract awarded to Wilbert Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

## Miscellaneous Construction News

**Administration Building**, Highstown, N. Y. Architects, Rich & Mathesius, 320 Fifth avenue, New York City. Owners, Peddie Institute, Highstown, N. Y. Brick, steel, castone, cut stone, granite and blue stone, 3 stories and basement, 41x62 feet, (2) wings, 31x60 feet, slag roof, concrete, oak and granolithic floors, dampproofing, caulking, iron work, iron stairs, hollow metal doors and sash, tile, marble and terrazzo work, metal lath (heating, plumbing, ventilating and electric work separate bids). Owners taking bids due January 18th.

**School Building**, No. 69, West Arlington, Md. Architects, Mottu & White, 527 North Charles street, Baltimore, Md. Owners, City of Baltimore, Md. Brick, reinforced concrete, castone, granite and steel, 2 stories and basement, 264x146 feet and 142x56 feet, slag and gypsum tile roof, mastic, concrete, maple and pine floors, metal window guards, waterproofing, iron work and stairs, floor hardener, bond, rolled steel skylights and sash, metal lath, electric lighting, steam heating. Owners taking bids due January 16th.

**Consolidated School**, Dover, Del. Architect, William Heyl Thompson, 1211 Walnut street, Philadelphia. Owners, Dover Special School District, William B. Thornburgh, secretary, Dover, Del. Brick, concrete, precast and cut stone and steel, 2 stories, 224x80 feet, slate and slag roof, cement and maple floors, metal lath, safety treads, waterproofing, iron work, bond, kalamein doors, rolled steel skylights, steam heating, electric lighting. Lowest bidders: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, \$198,860.

H. Rex Stackhouse, J. Fletcher Street and Harry Parker, Architects, formerly of 129 South Fifth street, have opened new offices at 1120 Locust street, Philadelphia.

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## AS THE EDITOR SEES IT

(Continued from Page 20.)

continue to be stoppages of trade as long as full publicity for every factor in trade is not compelled by law.

There is, however, another phase. If any group be permitted to gain exemption from the law to have a privileged position, then it may use its advantage to obstruct the law of supply and demand for its own benefit. It will not in the long run gain anything of a permanent nature, for the economic laws are inexorable, but it will disturb the balance of industry. Artificial prices, prices based on other than the law of supply and demand—prevent the business of the country from freely functioning.

Many of our prices are still artificial. Profits are too low because costs are too high. The costs, where the natural law has been permitted to work, have lowered. Both transportation and coal are artificially above the general scale of prices and this prevents trade from flowing as freely as the condition of the country would warrant. There is propaganda tending toward spreading the belief that profits or wages can be maintained at artificial levels in certain lines without injuring the prosperity of the country as a whole. Employers know otherwise. They know that continuous profits come only from capable, honest management.

They have not always known this. Not many years ago, not much more than a score, the managers of some of the large private business corporations apparently believed that it was enough if their conduct was within the technical rules of law; that if no public law was violated the corporation should be permitted to secure unlimited profit and might treat indifferently its customers, its employees, its competitors, and the general public.

And not a few officials, with this reasoning, were inclined to take advantage of inside, advance information to promote their own pecuniary interests. They ignored the moral principles. They gave no thought to the Golden Rule. Competition was tyrannical and destructive. Weaker competitors were forced out of business, often by means not only unethical but brutal. Instead of competition being the life of trade it was the death of trade. Instead of monopoly being destroyed, it was encouraged. The letters written during this period by owners and managers of some of the great industrial concerns, furnished indisputable evidence of a disposition to ignore the principles of ethics.

*Business Changes of the Last 20 Years*

This school, following traditions, did not give just consideration to employees. The welfare of the workmen was decided almost entirely from the standpoint of utility and profit, a little thought and credit, of course, being given to safety

and physical condition as affecting ability to serve.

Within the last 20 years or more there has been a decided change in the standards and conduct of business. Thousands of business men all over this country, who 20 years ago believed that the subject of ethics had little, if any, rightful place in business conduct, now insist that it is controlling. Business throughout the United States is today transacted on a higher plane than ever before, though of course there is always need for further improvement.

The radical leaders start with the presumption that business is essentially dishonest, and there is not a little evidence that business may during this year be subjected to many unfair attacks which have as their end the obtaining of an advantage to a class and not to the country as a whole. The business man who sincerely believes himself honest will have the courage and strength to stand solidly against any unworthy attack touching his management. He can afford to be courageously patient while waiting for the real facts to develop. But this is no reason why a man in business should be the less equipped, if necessary to defend, and better to assert the economic basis of his position.

Those who attack business are often permitted to seem possessed of all the facts and the logic, whereas as a rule their facts are usually inaccurate and their logic vulnerable. Few men actually engaged in business have taken the time or the trouble to school themselves as theoretical, as well as practical, students of commerce.

A larger attention to economic fundamentals on the part of the man in business would do much toward checking the effectiveness of unfair attacks. Business is today a science and it needs to have a scientific equipment. And also its outlook might well be broadened, for the well-being of business and of the nation are inseparable.

Public investigation of business affairs by legislative committees is sometimes necessary and generally productive of good. But some investigations are a public nuisance which go beyond the legitimate domain of the examination, and more particularly, when misrepresentations or unfair methods are indulged in.

Some investigations have been of great benefit in exposing to the public facts relating to misconduct or mismanagement, and have resulted in correcting evils. But more frequently they are harmful because they are unfair, politically partisan and managed without regard to the rules which govern legal procedure.

The public interest is properly protected only when the facts are given to it by an honest, impartial, and intelligent

investigation by a Government board of undoubted merit which is nonpartisan in character. The governmental regulation of industry cannot be proper or desirable without the condition, that there shall be no discrimination—that all lines and departments of economic activity of similar importance shall be subjected to the same treatment.

Without at all discussing the merits of governmental regulation of industry, it cannot, in my opinion, ever be satisfactory and permanently successful unless and until it is fair and reasonable and, above everything else, is applied without discrimination. If any man urges legislation that especially favors or punishes any class or division of industry, he should frankly avow that he is after something intended to be contrary to the general spirit of the Constitution of this country.

Legislative enactments or the modification or extension of existing laws for the regulation of industry are being frequently debated in and out of Congress and, personally, I welcome this in so far as it is sincere, unselfish and nonpartisan.

Investigation and publication are proper and desirable, if they are not carried to excess. Constant, partisan, and reckless indulgence in this pastime by representatives of government, or what is much worse, by self-appointed, unqualified, or dishonest individuals or associations, posing as public benefactors, may be and often is misleading and antagonistic to the general welfare.

At other times I have said that occasional investigation of investigators might result in exposure of a good many rascals and I would emphasize the statement.

Often the man crying "stop thief" in the loudest tones has the stolen goods in his pocket. If a man by his manner and methods gives evidence of personal hostility or selfish designs, it is well to scrutinize his conduct and motives before giving credit for his work or placing reliance upon his statements.

There are many vicious bills pending in Congress which bear upon economic progress. They tend to unsettle industry, to induce fear. It is no answer that the fears usually prove groundless.

Even the mere appropriation bills which provide the necessary funds for governmental administration often precipitate trouble and demoralization and occasionally business depression. It is not so much that large expenditures are proposed as it is the spirit generally exhibited. Selfishness, greed, and vindictiveness are displayed. Not infrequently efforts to promote political or personal advancement are strongly in evidence. Many things other than the public welfare are apparent.



It can be said with some positiveness that if we do not have prosperity this year it will be because of agitation and laws, no matter what their altruistic guise, which are directed against the general welfare.

#### *The Effect on Business of the Tariff and European Debts*

Neither the tariff nor the debts owing to us from Europe out of the war will in my opinion have any considerable effect upon business. The tariff is, as always, unsatisfactory, and no satisfactory tariff law will be passed until the two major political parties agree upon the principles of the tariff and take it out of politics. The saving grace of the tariff bill just passed is that its provisions may be modified by the President.

This will work to prevent injustice or profiteering and it is a step in the direction of the appointment of a commission of well paid, high-minded, intelligent, competent, and non-partisan citizens continuously to ascertain the facts on all tariff matters. A thoroughly helpful tariff is one that has no favorites, but looks solely to the fair protection of industry without oppressing consumers.

I do not agree that our own economic position would be better if we forgave the debts owing to us from abroad. We should only be adding to our own burdens. Perhaps if all the debts were paid to us at once and in gold we should have a monetary disturbance, but this is not a danger to which we need give much thought, for there is no possibility that the debts will overnight be paid to us in gold.

I think that the foreign nations can and will pay their debts, some sooner than others and some of them sooner than is now generally expected. We should be willing to extend payments at reasonably low rates of interest and also we should be glad to make new loans whenever we have the confidence that they will be repaid.

Just at this time it is generally recognized that there is a shortage of labor, although now and generally there are considerable numbers of idle men who do not ask for or desire steady work. For various reasons many workmen have returned to their homes in foreign countries.

The shortage in labor, however, has come principally as the result of the percentage immigration laws which have limited the number of workmen who would now come to this country if not prevented by the laws referred to. After some experience these laws are now believed by large numbers to be unreasonable.

Ostensibly, at least, these laws were aimed at the sudden and large increases in the number of foreigners who were

locating here, many of them entertaining views hostile to the ideas of our government.

#### *One of the Most Important Questions Today*

These laws ought to be changed promptly. The restrictions upon immigration should be directed to the question of quality rather than numbers of foreigners coming to this country. Measures for limiting the number of immigrants to those who are clearly shown to be healthy, morally, politically and physically, ought to be clear, strict and enforceable; but the number allowed to come here should be equal to the necessities of our industries.

The administration of the law could be under the control of a competent and impartial governmental commission or department to be managed for the benefit of the general public, and not for the protection of any special class or the exploitation of any impractical or injurious theory. This immigration question is one of the most important now being debated by people throughout the United States.

We undoubtedly need more workers and the wise business man will give attention to seeing that those who work with him are fairly treated and are paid the highest feasible wages on a basis of fitting the wage to the work. Employers who attack labor are not entitled to more consideration than labor that attacks employers. Both are hindrances to prosperity.

If this country is to maintain the economic position in the onward march of nations to which it is entitled, we must have sufficient numbers of competent workmen adequately to supply our industries. To prohibit this would be disastrous, as can be logically demonstrated in a full discussion of the question.

We can prosper only on a fair give and take practice and if the business of the country operates on such a basis there can be no question but that this year holds for us a large and general prosperity.

#### ARCHITECTS AND HOUSE PLAN SERVICE

What is said to be the first definite movement on the part of architects and contractors to combat free service plans of retail lumber dealers has been started by several prominent architects of Indiana organizing what will be known as the Small House Service Bureau, which will specialize in drawing and marketing plans for small house construction.

It is an interesting fact in this connection that the lumber industry has for

many years made a strong feature of house plans and free architectural service for the average home builder. There are many ideas and plan service schemes in operation throughout the country, most all of them through the co-operation of retail lumber dealers. And there is no doubt but what plan books and pictures of homes and floor plan outlines supplemented by blue print drawings have done a lot to promote new home building, and incidentally they have perhaps cut into the field of architectural work proper. In other words, the free plan service of dealers has saved many a home builder from having to employ an architect or other expert service to help him plan his home.

While all this has been going on the clayworking industry has been well enough informed about it and has been slow in taking up with this idea, notwithstanding it is plainly a result bringer, partly because of a desire to work in harmony with the architects, and partly because manufacturers of brick and hollow tile have not in the past taken the same interest in the subject of house plans and home designing that has been manifested by the lumber industry.

There is an open question of whether or not either architects or contractors have any reason or excuse to complain of the enterprise of the lumber folks in this connection. Surely it has not deprived contractors of anything, but has often made more work for carpenters and contractors, who have not manifested enough initiative and enterprise on their own part to stimulate new building like that, that has been done by enterprising lumber dealers in co-operation with manufacturers and their associations who have helped promote these home plan and home building ideas. Protest against things of this kind is protest against enterprise and progress, and the better idea is that which seems to have been started by architects, and that is to get busy and get into the game themselves.

There are many who desire to build small homes and to have something unique and original, yet they do not feel able to afford the services of a high-priced architect. Therefore, if the architects can get together and furnish on a reasonable cost basis plan service that is in keeping with the needs and that will not be considered burdensome in cost, they will not only create business for themselves, but they will help in promoting better home building in the future as well as stimulating more of it.—*The Clay Worker*.

The impractical dreamers are not the architects, but the clients themselves, as a rule.



## CREATING A DESIRE FOR BETTER BUILDING BY ERECTING MODEL HOMES

**E**ARNEST efforts are being made by various groups of builders and different organizations to have better homes, both in design and construction. A rather interesting effort along this line was recently successfully completed at Larchmont Gardens, N. Y. A "Model Home" was erected and this was completed by noon on October 9th and thrown open for public inspection. From October 9th to 15th was "Better Homes Week" in New York, and that is why October 9th was selected for the opening date.

The building industry is receiving a good deal of publicity in various newspapers, magazines, books, etc., all tending to educate the public for the better things for buildings that can be had. More attention is now being paid to conveniences, rather than to mere size and this results in more comfort at less expense.

Sometime ago a design of a house was published in the New York "Tribune" which was furnished by the Home Owners' Service Institute, of New York, having been designed by John Floyd Yewell, architect. The thought then occurred that to build a house as a demonstration of what could be done and keep accurate records of the cost would be something practical and would create quite a good deal of interest among intending home owners. Therefore, with the added co-operation of the Empire Home Building Association, of New York, as builders, the project was started, and brought to a successful finish.

The actual construction of the model house was begun at Larchmont Gardens, New York, on August 1, and on October 11 it was completed in every detail within and without and was ready for immediate occupancy. The house cost complete \$8,842.06, including the builder's profit. The cost of the land and landscaping brought the total cost to \$11,896.32.

For the above amount this model home represented high standards of construction and was what its builders intended that it should be—a home of trimness and stability. It is the proof of its sponsors that the Larchmont Gardens House is as near to perfect as could be obtained for the American small home of today. This house is located at the corner of Harmon Drive and Weaver Street, Larchmont Gardens, New York, within forty minutes' ride of the Grand Central Station in New York.

The design selected won first prize in the recent National Small House Competition. It was also selected by the National Lumber Manufacturers' Association

for exposition in model form at different expositions.

The plan of the model house includes living room, dining room, and kitchen on the first floor and two porches, besides the entry porch. The smaller porch off the dining room can be used as an outside dining room. A convenient arrangement is having the laundry tubs in the back entry. There are two bedrooms of good size on the second floor, together with bathroom and ample closet room.

The house is 20 ft. x 34 ft. 6 in., not including the porches. As built, the cubical contents is 20,322 cu. ft. The architect estimated the cost of construction at \$8,000, and the actual figures come very close to this, which proves the correctness of the estimate.

The house was furnished by several prominent house furnishing establishments of New York. In the actual construction of the house, many well-known advertised building materials were used in its erection and equipment, but everything was bought at regular market price, so as to obtain actual average costs.

When the house was completed, advertisements in different papers called attention to it, and during the first 13 days that the house was open, more than 6,000 people visited it and on the final day of "Better Homes Week" 1,200 people were admitted. The verdict of the thousands who visited the house was that, this interesting experiment in home building was a huge success.

The construction of the house was undertaken to determine the actual present-day building costs and conditions. Mere cheapness of construction was not sought. The thought uppermost in the minds of all co-operating was to obtain the best material at the best price and the whole-hearted co-operation of the various building crafts and dealers to obtain a really good job.

Of course, after the house has served its demonstration purpose it will be sold. Through the same parties co-operating again, the experiment will be repeated a number of times with various designs.

The idea of this educational campaign is to determine the variance in costs of different forms of construction and erection in different localities. By this means, it is believed that a great amount of actual first-hand information for the prospective home builder will be gathered. Of course, through the newspaper sponsoring this idea, detailed accounts of the progress of each house will be published, so as to keep the public interest keyed up. All this will tend to create the desire for better home building.—*Building Age*.

**The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.**

**Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.**

**The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.**

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**The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.**

**The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.**

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**You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.**

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Fleck Bros. Co. ....44 N. 5th St., St., Phila.

Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.

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Borden Stove Co. ....1026 Arch St., Phila.

Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

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Croyle, Guy .....Merion Station, Pa.

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Fitzgerald, J. J., & Co..2nd and Butler Sts., Phila.

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## SHEETROCK (Wall Board)

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 3  
January 17, 1923

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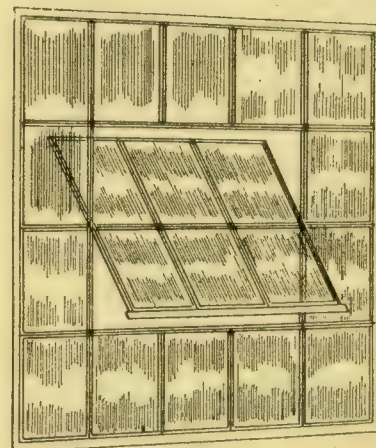
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Exchanges for Clearing House.....	4,070,305.63

\$67,160,688.12

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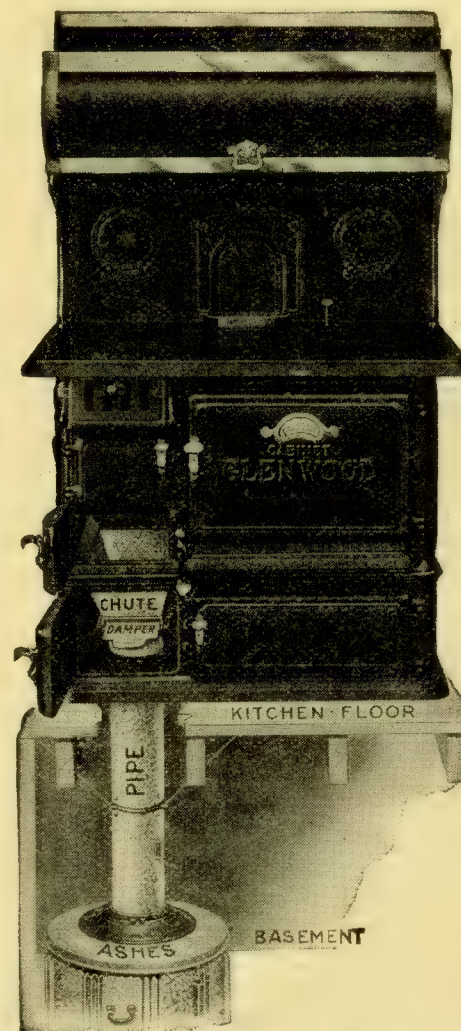
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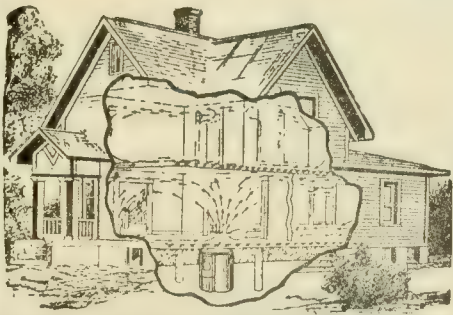
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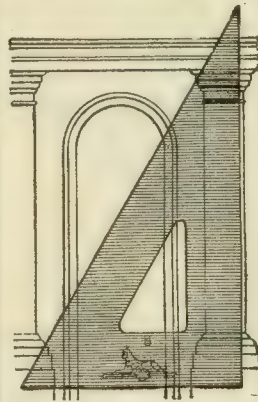
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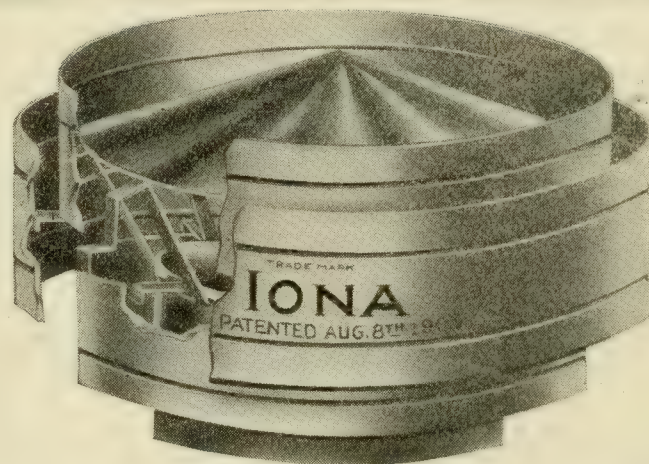


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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 3

PHILADELPHIA  
January 17, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



THE estimated cost of all buildings, alterations, additions, repairs and miscellaneous work in buildings for which permits were issued by the Philadelphia Bureau of Building Inspection for 1922 was \$114,881,040.00, according to detailed reports printed on other pages of this issue of the GUIDE. The total is almost three times greater than in 1921. Total operations of all kinds amounted to 22,588 as compared to 14,654 in 1921, at a cost of \$42,790,780, making 1922 the greatest year for construction in the history of the city.

Almost 43% of the total value of permits for 1922 was for residences, \$49,273,820 having been expended for this kind of work. Residences of the one, two, three story type, including the frame dwellings, totaled 9,561. This is 7,317 more than were started in 1921, when only 2,244 residences costing \$12,149,110 were begun. \$37,124,710 more was put into residences in 1922 than in 1921.

From 1912, inclusive, to the present, construction was begun on 56,456 houses, costing \$195,520,490. The lowest year was 1918, with 965 houses. In that year, however, there was an embargo on building materials. The total for 1918, \$15,452,670, for all classes of building, only equals the cost of this year's alterations and additions.

The average number of dwellings erected per year in Philadelphia prior to 1917 was 7,150. The average erected

from 1917 to 1920 inclusive was 2,550, which showed a decrease per year of 4,600 houses for the four years, totaling 18,400. With a shortage in 1921 of 4,900 houses, Philadelphia began 1922 with approximately 23,000 short of requirements. With the increase in dwelling construction in 1922, Philadelphia is still approximately 20,000 houses below requirements.

Next to residence construction came in order: Manufactories, \$8,287,510; Office Buildings, \$8,132,990; Schools \$6,701,700; Garages, \$5,072,765; Tenement Houses, \$4,388,500.

March led in the number of new buildings started with 1,643; June, with 1,456, was second, and May followed with 1,227 operations. January, 1922, was the lowest in number of operations started. Every month in 1922 showed marked increase over 1921.

### Estimated Costs For Each Month

Month.	Permits.	Operations.	Estimated Cost.
January .....	634	976	\$4,411,320
February .....	756	1,246	5,381,435
March .....	1,464	2,609	9,210,510
April .....	1,415	2,033	11,136,610
May .....	1,483	2,288	8,872,050
June .....	1,492	2,461	13,190,220
July .....	1,359	1,972	10,531,810
August .....	1,349	2,194	10,945,830
September .....	1,260	2,020	11,714,140
October .....	1,419	2,037	9,876,025
November .....	1,088	1,560	11,416,730
December .....	757	1,192	7,967,360
	14,476	22,588	\$114,654,040

The following table shows the total for each year back to and including 1909:—

Year	Operations	Estimated Cost.
1909 .....	17,294	\$ 42,881,370
1910 .....	16,383	37,866,565
1911 .....	16,215	40,030,985
1912 .....	14,907	37,173,635
1913 .....	14,813	38,763,850
1914 .....	15,709	35,419,605
1915 .....	17,712	39,444,125
1916 .....	15,613	49,896,570
1917 .....	8,977	34,016,408
1918 .....	5,950	15,452,670
1919 .....	14,509	65,088,750
1920 .....	12,512	55,305,400
1921 .....	14,654	42,790,780
1922 .....	22,588	114,881,040

The forty-second ward, with 3,287 dwellings erected in 1922 led all other districts and built three times as many houses as any other district.

The great increase in building in Philadelphia in 1922 is typical of the conditions throughout the country.

Reports of current building operations from all parts of the country warrant an estimate at this time of \$3,828,000,000 as the nation's building record for 1922, says the survey of the general building situation throughout the United States by S. W. Straus & Co. The amount exceeds the total for 1921 or any other year in the nation's history by nearly \$1,000,000,000.

Building for December approximates

**DRAWING  
MATERIALS**

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BELL PHONE, SPRUCE 1256

Philadelphia  
KEYSTONE PHONE, RACE 3519

**BLUE  
PRINTS**



\$250,000,000 a substantial increase over December, 1921, despite the fact that the last month of 1922 shows a decrease over November of the same year. This loss is due in part to natural seasonal causes, supplemented by transportation congestion. During each month a new record has been established.

There is no indication of any decrease in building costs; on the contrary, conditions point to a continuance of the

present wage scale with a tendency toward higher levels. The shortage of laborers is a subject of considerable importance to employers. The ranks of the skilled mechanics are being reduced to a greater extent than they are being replenished.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

RECORD OF RESIDENCE CONSTRUCTION IN VARIOUS WARDS OF  
PHILADELPHIA FOR EVERY MONTH DURING THE YEAR 1922

# Showing the Number of Houses for which Permits were Issued by the Bureau of Building Inspection

[illegible]

THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings.																																	
Wards		2	3	4	5	8	12	13	15	16	17	18	20	21	22	23	24	27	31	32	34	35	38	39	40	41	42	43	46	47	48	Totals	
January							1							1	12						2											18	
February	1														6	3								1	8		1					20	
March			1					1							52	8					7	1				1	5		6			83	
April			2					1	1				1	5	20						23	2	2		1		6		1			66	
May				1										3	17	10					7	2	2			6	14					62	
June								1	1						18						26		1		1		4					52	
July													1		2	40			1	1		2	4				5	4				62	
August	1		1											1	10	1					7		4		1		1					28	
September						1					2			1	17	1				2	10		1				3	2				40	
October													1	2	13						5	2	3				11		1			38	
November									1					2	20						15		2									40	
December			1		2									3	3		1				20	1	8				2		1			42	
Totals	1	1	5	1	3	1	1	4	1	2	1	2	1	3	21	228	23	1	1	1	2	124	10	27	1	11	7	52	6	9	2	1	551

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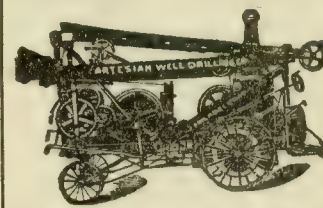
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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Memorial Home**, Frankford avenue and Somerset streets, Philadelphia, \$50,000. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Harry L. Greenwood Post, American Legion, care of architect. Two stories and basement, 40x90 feet. Plans in progress. Too early for details.

**Telephone Exchange**, 3810-12-14 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick and steel, 3 stories, 50x220 feet, slag roof, steam heating, electric lighting. Plans in progress.

**Residences (22)**, Dyer and Horrocks streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Philip Robin, 3334 Harold street, Philadelphia. Brick, 2 stories. Details undecided.

**Operation of Residences (2)**, Twelfth and Cheltenham avenue and Thirteenth and Medary avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Philip Robin, 3334 Harold street, Philadelphia. Brick, 2 stories. Number of residences or details not yet decided.

**Apartment House**, Forty-third and Spruce streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Eugene Townsend, Morris Building, Philadelphia. Brick, slow burning, 4 stories. Plans in progress.

**Residence and Garage**, Stenton, Philadelphia, \$30,000. Architect, Samuel D. Hawley Co., 30 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x60 feet, and 1 story, 20x22 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, metal lath, cement work. Plans in progress.

**Residence**, Queen Lane Manor, Philadelphia. Architects, Samuel D. Hawley Co., 30 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 25x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Stores (4), Apartments (6)**, Southwest Corner Fifteenth and Catherine streets. Architect, C. B. Roth, Drexel Building, Philadelphia.

Owner, Benjamin Lander, Sixteenth and Christian streets, Philadelphia. Brick, 3 stories, 33x80 feet, remodeling of one dwelling, slag roof, pine floors, steam heating, electric lighting, tile and marble work, metal ceilings, steel work, metal bulks. Plans in progress. Architect will be ready for bids in one week.

**Residences (5)**, 253 to 261 South Van Pelt street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Marion D. Grant, care of architect. General remodeling. Plans in progress.

**Residences**, Latimer street, West of Twentieth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General remodeling. Plans in progress.

**Residences (6)**, Lakeside avenue, Twelfth street to Lawnton avenue, Oak Lane, Philadelphia. Architect, private plans. Owner, W. Ellis Groben, Oak Lane, Philadelphia. Stone, 2½ stories, slate roof. Work contemplated in spring of 1923.

**Residences (117)**, Charles, Comly, Van Kirk and Howell streets. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Brinkmann & Hoover, Inc., 2617 Frankford avenue. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, tile work, hot water heating, electric lighting, mineral flooring. Owners are ready for sub-bids.

**Apartment House (alts. and add.)**, Forty-sixth and Spruce streets. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Traub Brothers, on premises. Brick, reinforced concrete and steel, 3 stories, 95x29 feet, slag roof, oak and composition floors, controlled heating, electric lighting, metal lath, tile and marble work, iron work. Architects taking bids due January 22nd.

**Stores (24) and Garage**, Broad and Shunk streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Harry P. Sharp, Fifty-third and Thomas avenue, Philadelphia. Reinforced concrete, brick and steel, 1 story, 16x30 feet, and 2 stories, 80x290 feet, slag roof, pine and cement floors, metal ceilings,

flush bulks, plate glass, fire doors, rolled steel sash, electric lighting, steam heating. Owner taking bids.

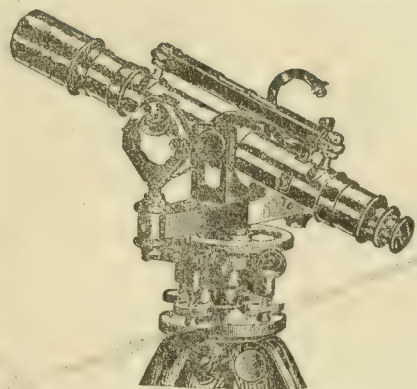
**Sales and Service Building**, 1415 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, cut stone, limestone and reinforced concrete, 4 stories, 100x37 feet, slag roof, concrete floors, dampproofing, terra cotta, iron work, fire and kalamein doors, hollow metal sash, rolled steel skylights, tile and marble work, metal lath (heating, electric work and plumbing reserved). Owner is taking bids due January 18th.

**Warehouse**, Rising Sun avenue and Venango street, Philadelphia. Architects, Bolton & Taylor, Essex Building, Newark, N. J. Owners, Tomkins Brothers, on premises. Reinforced concrete and brick, 2 stories, 109x39x53 feet irregular, slag roof, cement floors, iron work, electric lighting, rolled steel sash. Architects taking bids due January 29th.

**Store and Residence**, Rising Sun avenue, Lawndale, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, H. Goldstein, 6431 Rising Sun avenue, Philadelphia. Brick, 2 stories, 17x80 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, metal lath, tile and marble work, hollow metal skylights, metal bulks. Architect will be ready for bids in one week.

**Basement (alts.)**, 1309 Market street, Philadelphia, \$7,000. Architect, Charles J. Schaeff, 11 South Sixteenth street, Philadelphia. Owners, Gibson Estate, 251 South Fifteenth street, Philadelphia. Lessee, Men's Service Shop, Inc., 712 West Columbia avenue. Steam heating, electric work, plumbing, composition floors, tile and marble work, metal ceilings, carpentry, mill work, painting, glazing, plate glass. Owners will build.

**Residences and Garages (5) pairs and (1) single**, Southwest Corner Fifty-fourth and Overbrook avenue, Philadelphia. Architect, private plans. Owners, Herman Bobb & Silversein, 522 South Sixtieth street. Stone, 3 stories, (10) 18x68 feet, and 1 story, 22x22 feet, (1) 3 stories, 28x82 feet, slate roof, hardwood floors, hot water heating, electric



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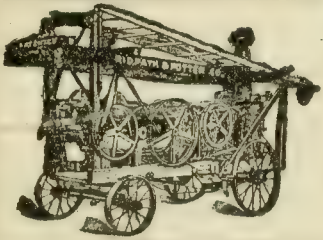
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lighting, tile work, metal lath, cement work. Herman Bobb, 522 South Sixtieth street, is taking sub-bids.

**Building**, Northwest Corner Twenty-first and Market streets, Philadelphia. Architects, Hoffman Henon Co., Finance Building, Philadelphia. Owner, name withheld. Reinforced concrete, brick, cut stone and steel, 12 stories and basement, 188x91 feet, slag roof, cement floors, hollow tile, waterproofing, terra cotta, iron work, hollow metal doors and sash, marble and terrazzo work, metal lath. Architect taking bids due January 23rd.

**Factory Building**, Water, Swanson, South and Bainbridge streets. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, American Bag & Paper Co., Second and Vine streets, Philadelphia. Reinforced brick, concrete and steel, 7 stories, 276x95 feet, terra cotta trim. Architect taking bids due January 23rd at noon.

**Residences (11), Store and Residence (1), and Store (1)**, Price and Crittenden streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, H. H. Heist, Sixty-fifth and Wister streets, Philadelphia. Brick, 2 stories, 18x29 feet and 20x50 feet, slag roof, hot water heating, electric lighting, pine and hardwood floors. Owner ready for sub-bids.

**Residences (21)**, Seventeenth street, between Sixty-sixth and Sixty-seventh avenues, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, John J. Bateman & Sons, 5138 Wayne avenue, Philadelphia. Stone and brick, 2 stories, 16x39 feet, slag and slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work, garages in basements. Owners ready for sub-bids.

**Residences (6)**, Charles and Wakeling streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, W. A. France, 1511 Oxford avenue, Philadelphia, Frankford 2340. Brick and stone, 2 stories, 18x29 feet, slag roof, hot air heating, electric lighting, pine floors. Owners taking sub-bids.

**Art Gallery, Stores and Offices**, 1924-26 Chestnut street. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Philadelphia Art Gallery, Fifteenth and Chestnut streets, Philadelphia. Indiana limestone and brick, 4 stories, 44x230 feet, (2) elevators, vapor vacuum steam heating, electric lighting, plumbing, tile and marble work, will contain 9 stores. Architect will take general bids in one week.

**Ice House (add.)**, Ninth and Oregon avenue, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owners, Southwark Ice Co., Twelfth and Wash-

ington avenue, Philadelphia. Architect and owner taking bids due January 18th.

**Store (alts.) and Apartments**, Seventh and McKean streets, Philadelphia. Architect, private plans. Owner, Frank I. Warshofsky, on premises. Steel work, carpentry, mill work, painting, plastering, electric work, tile and marble work, plate glass, cornice work, demolition. Plans in progress.

**Residences (5)**, North side Haverford avenue, West of Sixty-fifth Street, \$29,700. Architect, private plans. Owner, D. A. Pacific, 260 North Simpson street, Philadelphia. Brick, 2 stories, 16x40 feet and 16x28 feet, 12x12 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Store and Office (alts. and add.)**, Northwest Corner Twenty-second and Indiana avenue, \$5,500. Architect, private plans. Owner, Serafine De Mattharis, 2962 North Twenty-second street, Philadelphia. Brick, 2 stories, 16x8 feet, slag roof, general alterations. Owner will build.

**Girls' Home (add. and alts.)**, 919 Locust street, \$5,000. Architect, private plans. Owner, E. Maene, on premises. Brick, 3 stories, 23x18 feet, slag roof, pine floors, general alterations. Owner will build.

**Store and Rooming House (alts.)**, 443 North Seventh street, \$4,000. Architect, private plans. Owner, Henry Sandy, 416 Spruce street, Philadelphia. General alterations. Owner will build.

**Residence (alts.)**, 1936-38 Delancy street, Philadelphia, \$2,500. Architect, private plans. Owner, John F. Lewis, 1914 Spruce street, Philadelphia. Carpentry, mill work, brick work, painting, glazing, plastering. Owner will build.

**Residence and Store (alts. and add.)**, 4657 Rising Sun avenue, \$2,800. Architect, private plans. Owner, Henry A. Barth, 4701 Rising Sun avenue, Philadelphia. Brick, 1 story, 12x12 feet, slag roof, general alterations. Owner will build.

**Garages (34)**, South side Sparks street, East of Twentieth street, \$400 each. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 1 story, 10x17 feet, slag roof, cement floors. Owner will build.

**Residence and Garage**, Northeast Corner Durham and Crittenden, \$8,000. Architect, private plans. Owner, A. S. Tourison, Jr., 7014 Boyer street, Philadelphia. Stone, 2 stories, 22x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2)**, East side K street, North of Bleigh street, \$8,200 total. Architect, private plans. Owner, George Krewson, Cheltenham, Pa. Brick, 2 stories, 16x38 feet,

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slag roof, hot water heating, electric lighting. Owner will build.

**Store and Storage (alts.),** 505-07 West Lehigh avenue, \$3,500. Architect, private plans. Owner, William G. Adams, 224 East Tabor road, Philadelphia. General alterations. Owner will build.

**Apartment Houses (2),** North side Jefferson street, East of Sixty-third street, \$75,000. Architect, private plans. Owners, Kaplan, Shatten & Presser, Inc., 3602 Market street, Brick, 4 stories, 56x23 feet, 50x18 feet, slag roof, hardwood floors, tile work, electric lighting. Owner will build.

**Store (alts. and add.) and Apartments,** 1300 North Broad street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Charles Jamison, care of architect. Brick work, (3) sun parlors, 12x25 feet, brownstone, 1 story add. 9½x70 feet, maple floors, hardware, plastering, mill work, metal bulks, plate glass, fire tower, tile work, metal lath, electric lighting (changing heating system or extensions to present system). Plans in progress.

**Store (add.) and Apartments (alts.),** 3301 North Seventeenth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. Gould, care of architect. Brick, 1 story, 7x16½ feet, and 2 stories, 14x16½ feet, slag roof, hardwood floors, electric lighting, tile work, plastering, metal ceilings, plate glass, mill work. Plans in progress.

**Stores (2) and Apartments (alts.),** Northeast Corner Ninth and Wood streets, Philadelphia. Architect, private plans. Owner,

J. Wasserman, on premises. Raising roof, leveling floor, carpentry, mill work, stair work, hardware, electric work, plumbing, metal ceilings, flush bulks, plate glass, structural iron work, painting, glazing, tapestry brick, cement work, cornice work. Owner taking bids.

**School Building,** Large and Dyer streets, Philadelphia. **School Building,** Knorr and Cottage streets, Philadelphia. **Warehouse,** Second and New streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, stone, steel and reinforced concrete. Plans will be ready in one week. Owners will take bids due about February 7th.

**Residences (44),** Springfield avenue and Beaumont Terrace, East of Fifty-fifth street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, 730 South Fifty-second street, Philadelphia. Brick, 2 stories, 16x40 feet, (23) 16x32 feet, and (11) 15 feet 4 inches x 39 feet, slag, tile and tin roof, hardwood and pine floors, cement work, metal lath, hot water heating, electric lighting, tile work, garages in basements. Owners will be ready for sub-bids in a few days.

**Residences (24),** Windsor Terrace, East of Fifty-fifth street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Charles E. Biddle, 730 South Fifty-second street, Philadelphia. Brick, 2 stories, 15½x36 feet, slag and tin roof, hardwood and pine floors, hot water heating, electric lighting. Owner will be ready for sub-bids in one week.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Museum (add.),** Thirty-fourth and Spruce streets, Philadelphia, \$350,000. Architects, Stewardson & Page, Otis Building; Wilson Eyre and McIlvaine, 1003 Spruce street, and Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Trustees of University of Pennsylvania, on premises. Brick, cut stone, steel and concrete, ground floor, main floor and basement, 118x75 feet, tile roof, pine and cement floors, waterproofing, iron stairs, bond, drawn steel doors, rolled steel skylights, marble and terrazzo work, waterproofing. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street, Philadelphia.

**Sales and Service Building,** Fifteenth and Passyunk avenue, Philadelphia. Architect, Philip S. Tyre, 1809 Arch street, Philadelphia. Owner, C. K. Johnson (Ford Agency),

care of architect. Brick, cut stone, concrete and steel, 2 stories, 96x68 feet, slag roof, cement floors, elevators, bond, hollow metal sash, terrazzo work, metal lath, steam heating, electric lighting. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Bank Building,** Fourth and Market streets, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Mutual Trust Co., Bourse Building, Philadelphia. Brick, granite, concrete, cut stone and steel, 3 stories, 99x35 feet, slag roof, con-



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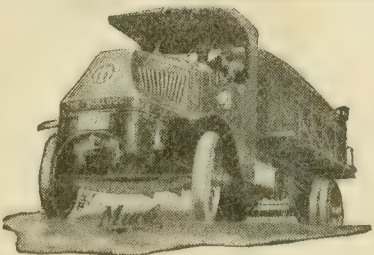
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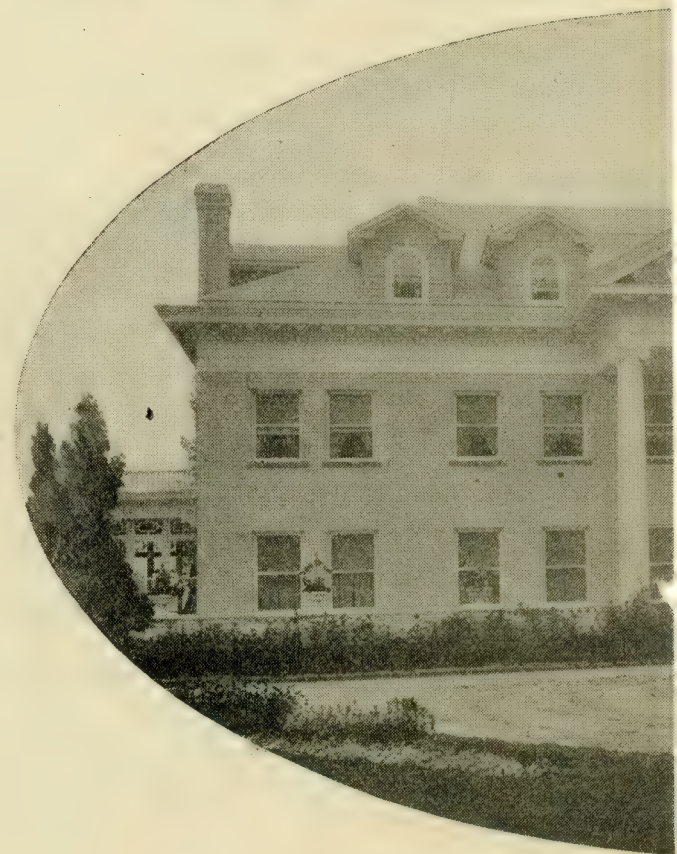
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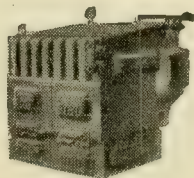
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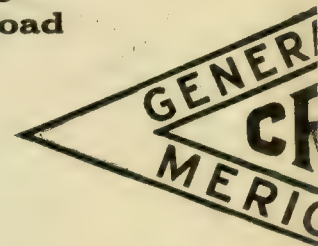
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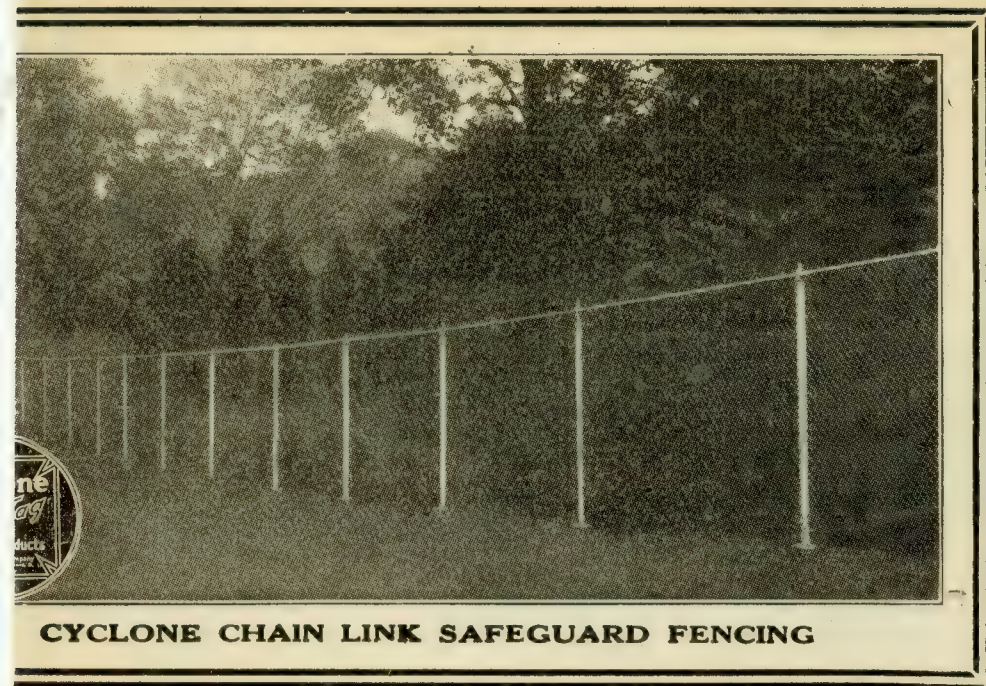
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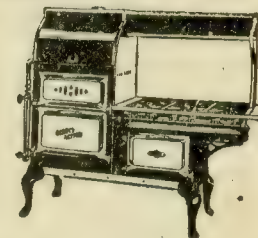
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crete floors, metal lath, hollow tile, iron work (heating, electric work, plumbing, tile, marble and terrazzo and finished floors reserved). Contract awarded to McNeill Valentine Co., 841 North Broad street (Note correction.)

**Building (alts. and add.),** 41 North Seventh street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Morris Sklar, 1020 Arch street, Philadelphia. Brick, 2 stories, 26x15 feet, slag roof, oak and pine floors, roof ventilators, cold water painting, iron work, metal bulks, bond, hollow metal sash and skylights, tile, marble and terrazzo work, steam heating (electric lighting and elevators reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street.

**Residence (alts.) to Stores and Offices,** 219 South Seventeenth street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Charles C. Orangers, 116 South Eleventh street, Philadelphia. Brick work, carpentry, mill work, steel and iron work, hardware, metal lath, plastering, painting, glazing, electric work, plumbing. Contract awarded to Christian F. Roeger, 617 Delancey street.

**Fire Escapes,** 18 and 20 South Delaware avenue, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Girard Trust Co., Broad and Chestnut streets, Philadelphia. Brick, cut stone, plaster, sheet metal work, hardware, painting. Contract awarded to William L. Noe Co., Second and Oxford streets, Philadelphia.

**Laundry Building,** 4809 Aspen street, Philadelphia. Architect, private plans. Owners, New Way System, on premises. Brick and steel, 1 and 2 stories, 65x80 feet, slag roof, concrete floors, rolled steel sash, tin-clad doors. Contract awarded to John N. Gill Const. Co., Otis Building.

**Motion Picture Theatre,** Northwest Corner Twenty-eighth and Reed streets, \$60,000. Architects, William P. Cameron Eng. Co., Witherspoon Building, Philadelphia. Owner, Augustus Becker, 1727 Snyder avenue, Philadelphia. Brick (first class), 2 stories, 58x153 feet, slag roof, steam heat, electric light, ventilators. Contract awarded to Burton C. Simon, Twentieth and Passyunk avenue.

**Manufacturing Building,** South side Wensley street, West of Delaware River, Philadelphia, \$12,000. Architect, private plans. Owners, Penn Brick & Tile Co., on premises. Iron, 1 story, 120x60 feet and 20x20 feet, reinforced concrete, truscon steel roof and siding, cement floors. Contract awarded to Cemprod Eng. & Const. Co., Bulletin Building.

**Apartment (alts.),** Southwest Corner Seventh and Pine streets, Philadelphia, \$10,000. Architect, private plans. Owner, Joseph D. Lewis, 2151 North Thirty-second street, Philadelphia. Carpentry, mill work, painting, glazing, plastering, metal lath, electric work, hot water heat. Contract awarded to H. Slavitt, 5136 Haverford avenue, Philadelphia.

**Residences (4),** South side Pratt street, East of Large street, \$6,500. Architect, pri-

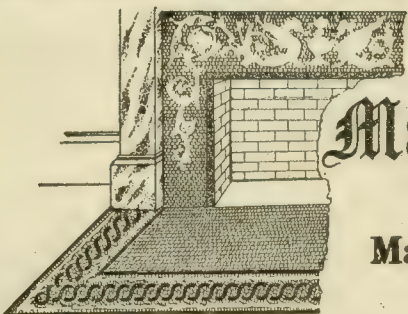
vate plans. Owner, William C. Glenn, Bustleton, Philadelphia. Brick, 2 stories, 18x40½ feet, slag roof, electric light, oak and pine floors. Contract awarded to C. T. Beechwood, Jr., 5537 Frankford avenue.

**Residences (2),** Thirteenth street, West side, South of Nedro street, \$6,000. Architect, private plans. Owners, Martin B. and Ethel M. Johnson, 1514 Spruce street. Brick, 2 stories, 18½x30 feet, slag roof, electric lighting. Contract awarded to Alex. E. Voight, 6108 North Tenth street, Philadelphia.

**Residence and Store (alts.),** 1048-50 North Second street, \$5,000. Architect, private plans. Owner, Jacob Israel, on premises. Carpentry, mill work, brick work, plastering, general alterations. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

**Residence and Store (alts. and add.),** 2519 South Broad street, \$4,800. Architect, private plans. Owner, J. Rechtman, on premises. Brick, 1 story, 16x7 feet, slag roof, pine floors, general alterations. Contract awarded to Negin & Keyman, 2440 South Reese street, Philadelphia.

**Apartment (add. and alts.),** 450 South Forty-third street, Philadelphia, \$4,000. Architect, private plans. Owner, Ralph Keenan, 5001 Hazel avenue, Philadelphia. Brick, 3 stories, 15x9 feet, slag roof, pine floors, electric light. Contract awarded to A. G. Steffen, 1000 South Fifty-sixth street, Philadelphia.



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**Warehouse**, 6113 Cedar avenue, Philadelphia, \$3,750. Architect, private plans. Owner, Martin Peters, 1013 Girard avenue, Philadelphia. Brick, 1 story, 20x112 feet, slag roof, cement floors. Contract awarded to Alfonso Verdi, 6145 Girard avenue, Philadelphia.

**Garage**, 3520 North Seventh street, Philadelphia, \$3,025. Architect, private plans. Owner, John Keller, 3522 North Seventh street, Philadelphia. Brick, 1 story, 66x16 feet, slag roof, cement floors. Contract awarded to George Good, Adams road, Olney, Philadelphia.

**Factory and Storage (alts.)**, 5821-23 Germantown avenue, \$3,800. Architect, private plans. Owner, Charles Marion, 5821 Germantown avenue, Philadelphia. General alterations. Contract awarded to Joseph Maranucci, 1118 Dickinson street.

**Storage Building (alts. and add.)**, 1027-31 Mifflin street. Architect, private plans. Owners, Manchester Laundry Co., Northeast Corner Eleventh and Mifflin streets. Brick, 1 story, 19x42 feet, slag roof, cement floors, alterations. Contract awarded to Samuel Cohen, 2620 North Twenty-eighth street, Philadelphia.

**Store and Storage Building (alts.)**, 313 North Second street, \$2,000. Architect, private plans. Owners, Rukoff-Shuf Company, 736 Moore street, Philadelphia. Carpentry, mill work, general alterations. Contract awarded to S. W. Levin, 1631 South Fifth street, Philadelphia.

**Apartment (alts.)**, 1836 North Twenty-second street, Philadelphia, \$2,000. Architect, private plans. Owner, Miss Letitia Cottman, 1934 Lombard street, Philadelphia. Carpentry, mill work, general alterations. Contract awarded to John J. Baker, 1750 North Twenty-second street.

**Residence and Store (alts.)**, 3100 Berks street, Philadelphia, \$2,000. Architect, private plans. Owner, Joseph Jameson, 3035 Berks street, Philadelphia. General alterations. Contract awarded to S. Yudofsky, 2642 South Percy street, Philadelphia.

**Building (alts. and repairs)**, 219 South Seventeenth street, \$2,500. Architect, private plans. Owner, Charles L. Ovomyers, on premises. General alterations and repairs. Contract awarded to Charles F. Raeger, 617 Delancy street.

**Residence and Store (add. and alts.)**, 6070 Ridge avenue, \$2,300. Architect, private plans. Owner, Benjamin Milgrim, on premises. Brick, 1 story, 14x15½ feet, slag roof, pine floors, electric work. Contract awarded to Joseph S. Batty, 4237 Pechin street, Philadelphia.

**Residence and Store (alts.)**, 2546 Germantown avenue, \$2,100. Architect, private plans. Owner, M. Shagin, 1518-20 North Franklin street, Philadelphia. General interior alterations. Contract awarded to Samuel Malkin, 425 Poplar street, Philadelphia.

**Residence and Store (add.)**, 1555 South Fifty-eighth street, \$2,000. Architect, private plans. Owner, Anna K. Mattson, West End Trust Co., Broad and South Penn Square, Philadelphia. Brick, 1 story add., 15x35 feet, slag roof, pine floors. Contract awarded to M. Segel, 4700 Reinhart street, Philadelphia.

**Residence (alts.)**, Northeast Corner Chew and Mt. Pleasant avenue, \$2,000. Architect, private plans. Owner, Barney Maguire, on premises. Carpentry, mill work, painting, glazing, plastering, general alterations. Contract awarded to Bart Tourison, 222 East Mt. Pleasant avenue, Philadelphia.

**Loft Building**, Sixth and Cuthbert streets, Philadelphia, \$300,000. Architects, Weber & Wurster, Morris Building, Philadelphia. Owners, Allied Realty Co., care of architects. Reinforced concrete, brick, limestone, granite and steel, 8 stories and basement, 80x95 feet,

slag roof, cement floors, hollow tile, metal lath, elevators, terra cotta, iron work, bond, fire doors, tile and marble work, demolition, steam heating, electric lighting. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**Residence**, Roxboro, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Mrs. M. S. Mears, 6701 Ridge avenue, Roxboro, Philadelphia. Frame and stucco, 2½ stories, 24x34 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Carl E. Hirsch, Conshohocken, Pa.

**Basement Store (alts.)**, 1309 Market street, Philadelphia, \$7,700. Architect, Charles J. Schaef, 11 South Sixteenth street, Philadelphia. Owners, Gibson Estate, 251 South Fifteenth street (Men's Service Shop, 712 West Columbia avenue). Carpentry, mill work, plate glass and mirrors, brass railings, tile and marble work, metal lath, and metal ceilings, plastering, steel work, brick work, mineral stucco, cement work, composition floors, painting, glazing. Contract awarded to A. S. Shafer, 2122 South Nineteenth street, who is taking sub-bids due as soon as possible.

## PENNSYLVANIA

## Construction News

**Bank Building and Office Building**, Shamokin, Pa., \$175,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Guaranty Trust & Safe Deposit Co., Frederick B. Moser, chairman Building Committee, Shamokin, Pa. Granite, marble and bronze, 1 story, 50x95 feet, slag roof, steam heating, electric lighting, tile work. Plans in progress.

**Theatre**, Renovo, Pa., \$75,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owner, J. J. McFadden, Renovo, Pa. Brick, 1 story, 60x125 feet, slag roof, steam heating, electric lighting, tile and marble work, fire doors. Plans in progress.

**Service Station**, Pottsville, Pa., \$40,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Neel Cadillac Co., Pottsville, Pa. Brick and steel, 1 story, 80x120 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash. Plans in progress.

**Club House**, Shamokin, Pa., \$35,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Shamokin Valley Country Club, D. H. McGhee, Shamokin, Pa. Frame and stucco, 1 story, 60x80 feet, shingle roof, steam heating, electric lighting, tile and terrazzo work, hollow tile, steel lockers, promenade tile. Plans in progress.

**School Building**, Springfield Township, Pa., \$150,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Springfield Township School Board, Bradley C. Alege, president, Orelan, Pa. Stone, 2 stories and basement. Preliminary plans in progress.

**Market House and Arcade**, Guetter and Main streets, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Broad and Main Streets Business Men's Association, care of architect. Brick, 1 story, 100x100 feet. Preliminary plans in progress.

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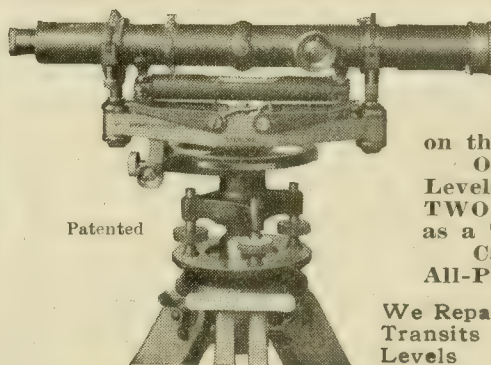
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**Memorial Clock Tower**, Public Square, Wilkes-Barre, \$100,000. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Luzerne County, care of architect. Stone or marble, 100 feet high. Preliminary plans in progress.

**School (add.)**, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, School Board of Kingston, J. Miles, secretary, Kingston. Brick, 2 stories, 85x61 feet, slag roof, hardwood floors, electric light, roof ventilators (heating, plumbing and electric work reserved). Plans in progress.

**Residence**, Plains Township, Luzerne County, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, 2½ stories, 22x34 feet, asbestos shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Stores, House and Garage**, South Main street, Wilkes-Barre, Pa., \$20,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, E. L. Klipple, 71 South Main street, Wilkes-Barre, Pa. Plate glass, copper work, maple floors, electric light, tile and marble work, elevators, roof ventilators, rolled steel skylights, metal ceilings, bronze grill, store fixtures, ornamental glass. Plans in progress.

**Church**, Duryea, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, care of architects. Brick, 1 story and basement, 40x112 feet, slate roof, pine floors, steam heat, electric light, metal lath. Plans in progress.

**Combination Chapel and School Building**, Bywood, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Alice's Roman Catholic Church, Rev. William L. Hayward, Bywood, Pa. Stone, brick and steel. Plans in progress. Architect will take bids in 30 days.

**Store (add. and alts.)**, Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Cleland-Simpson Co., care of architect. Brick, 5 stories, 50x165 feet, slag roof, heating extension, electric lighting. Too early for details.

**Garage and Show Room**, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, name withheld. Brick, tile, steel, 2 stories, 110x40 feet, composition roof, city heating, electric lighting, rolled steel sash. Plans in progress.

**Residence (alts.) to Apartment**, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, Edward Holbert, care of architect. General alterations, steam heating, electric lighting, hardwood floors, partitions, plumbing. Plans in progress.

**Residence**, Wyncote, Pa., \$60,000. Architects, Samuel D. Hawley Co., 30 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 35x80 feet, garage, 1 story, 20x40 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile and marble work, cement work. Plans in progress.

**Elementary School**, North Queen street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, School Board, Lancaster, Pa. Architect selected. Too early for details.

**High Schools (2)**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, School Board of Lancaster, care of architect. Architect selected. Too early for details.

**Church (alts.) to Club and School (add.)**, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, care of architect. Brick or stone, 2 stories. Preliminary plans in progress.

**Apartment and Store**, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 3 stories, 16x110 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, plate glass, copper work, metal ceilings. Plans in progress.

**Store, Apartment and Garage**, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 2 stories and basement, irregular size, slag roof, pine and concrete floors, hot water heat, electric light, tile work. Plans in progress.

**Bank**, Duryea, Pa. Architect, H. C. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Peoples Savings & Trust Co., E. T. Daniels, Taylor, Pa. Limestone, brick, hollow tile, 1 story, 28x70 feet, Johns-Manville roof, tile floors, vapor heat, electric light, tile work, roof ventilators, bank fixtures, vault. Plans in progress. Will be ready for bids February 1st.

**School Building**, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education,

School District of Borough of Pottstown, Pa. Architects will take bids in ten days.

**Gymnasium**, Fountain Hill, Bethlehem, Pa. Architect, A. J. Bibighans, 530 Hamilton street, Allentown, Pa. Owners, Fountain Hill School Board, J. M. Stehley, 1055 Seneca street, Bethlehem, Pa. Brick, concrete, steel, 1 story and basement, 50x100 feet, concrete roof, blower system heating, electric lighting, rolled steel sash. Architect ready for bids due January 30th.

**Residence**, Beechwood, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, Mrs. Alfred Hanson, 4629 Sansom street, Philadelphia. Hollow tile and stucco, 2½ stories, 30x30 feet, shingle roof, pine floors, hot air heating, electric lighting. Architects are taking sub-bids.

**Moose Temple**, 1018-20-22 Penn street, Reading, Pa. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Reading Lodge, No. 155, L. O. O. M., Reading, Pa. Stone and brick, 4 stories, 270x75 feet, slag roof, hardwood floors, roof ventilators, ornamental iron work, hot water heating, electric lighting, metal lath, tile and marble work, will contain auditorium, assembly rooms, lodge rooms, etc. C. H. Schlegel and High & Uber, Reading, Pa., are taking sub-bids.

**Tuberculosis Hospital**, Luzerne County, Pa. Architects, Edmund H. Poggi, Donald F. Innes and Charles L. Levy, Associated, 176 South Main street, Wilkes-Barre, Pa. Owners, Luzerne County, care of P. J. Schmidt, 176 South Main street, Wilkes-Barre, Pa. Brick and steel, size not determined, concrete foundations, slate and asphalt roof, tile, linoleum, mastic, wood and terrazzo floors, hollow tile walls and partitions, metal lath, elevators, dumb waiters, safety treads, roof ventilators, waterproofing, dampproofing, gasoline storage, wire work, steam heat, electric light, tile work, steel work, skylights, fire and kalamein doors, vault fixtures, floor hardener, iron stairs and work, steel lockers and shelving, limestone. Ready for bids.

**Residences (17)**, Brookline, Pa. Architect, private plans. Owner, E. Oscar Lobb, Llanerch, Pa. Stone, hollow tile and stucco, and frame and stucco, 2½ stories, 28x24 feet, shingle and composition roof, hardwood and pine floors, heated air heating, electric lighting, tile work. Owner will build.

**Residences (3)**, Llanerch, Pa. Architect, private plans. Owner, E. Oscar Lobb, Llan-

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orch, Pa. Stone, hollow tile and stucco, 2½ stories, 28x24 feet, shingle roof, hardwood and pine floors, heated air heating, electric lighting, tile work. Owner will build.

**School (add. and alts.),** Olyphant, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Olyphant School Board, P. J. McGinty, president, Olyphant. Brick, steel, 1 and 3 stories, 105x77 feet and 28x77 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved); tile work, roof ventilators, waterproofing, dampproofing. Owner ready for bids.

**Residence,** Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, J. Banick, 718 Madison avenue, Dunmore, Pa. Frame, 2 stories, 28x30 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Owner will build.

**Double Residences (6 to 8),** Drexel Road, Ardmore, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners, Pace & Bongiovanni, Merion, Pa. Stone, brick and frame, 2½ stories, 32 feet 10 inches x 45 feet (double), asphalt shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Charles C. Pace, Merion, is taking sub-bids. (Plastering reserved.)

**Central Office Building (alts. and add.),** Shamokin, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, reinforced concrete and steel, 1 story and basement, 42x22 feet, slag roof, composition, pine and cement floors, waterproofing, iron work, bond, marble work, steam heating, electric lighting, metal lath. Owners taking bids due January 24th.

**School Building,** Bridgeport, Pa. Architect, H. Courey Richards, 618 Chestnut street, Philadelphia. Owners, Board of Education, School District of Bridgeport, Pa. Brick, limestone trim, 2 stories, 140x70 feet, composition roof, reinforced concrete floors, hollow tile, steel work. Architect taking bids due February 5th at noon.

**Residence,** Wyncote, Pa. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owner, John S. Bush, Wyncote, Pa. Stone, 2½ stories, 100x42 feet, slate roof, oak and pine floors, iron work (heating, lighting and tile work reserved). Architects taking bids due January 22nd.

**Residences (16),** Lansdowne, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Stone, brick and stucco, 2½ stories, 37x49 feet, Spanish tile roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work, metal lath. Plans in progress.

**Bungalow,** Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, William Kiesel, Ardmore, Pa.

Frame and stucco, 1½ stories. Preliminary plans in progress. Too early for details.

## Pennsylvania Contracts Awarded

**Masonic Temple Building,** Allentown, Pa. Architects, R. G. Schmid & Co., 154 North Randolph street, Chicago, Ill. Owners, Masonic Temple Association, Frederick G. Raymond, president, Masonic Temple Building, Allentown, Pa. Brick, reinforced concrete, cut stone and steel, 3 stories, (2) mezzanines and basement, 150x48 feet, concrete roof, cement, linoleum and maple floors, metal lath, elevators, metal ceilings, terra cotta, iron work, bond, hollow metal sash (steam heating, electric lighting, plumbing and ventilating separate bids). Contracts awarded to: General, William H. Gangwere & Co., Allentown, Pa., \$542,520. Plumbing, Edwin P. Saeger, Allentown, Pa., \$32,600. Heating, William H. Taylor & Co., Allentown, Pa., \$58,390. Electric, H. M. Crowder, Jr., Co., Allentown, Pa., \$13,100.

**Foundry Building (add.),** Stowe, Berks County, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, The Stanley G. Flagg Co., Inc., 1421 Chestnut street. Brick, third story add., over one-half of present building, slag roof, maple plank floors, rolled steel sash, wood columns. Contract awarded to William H. Wiand, Pottstown, Pa.

**Residence,** Bryn Mawr, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Roger A. Hitchins, Bryn Mawr, Pa. Brick, stone and steel, 2½ stories, 58x28 feet, slate roof, composition and oak floors, metal lath, electric lighting, tile work, bond, iron work. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

**Residence,** Arvon road, Merion, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Louis J. Tunis, 1423 Locust street, Philadelphia. Stone, timber and

stucco, 2½ stories, 24x53 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Contract awarded to James M. Litton, 111 East Tioga street.

**Stores (alts.),** West Market street, Wilkes-Barre, Pa., \$10,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, J. J. Becker Co., 32 West Market street, Wilkes-Barre, Pa. General interior alterations, leaded and plate glass, tile and marble work, ornamental plaster. Contract awarded to Walborn & Barney, 175 Race street, Wilkes-Barre, Pa.

**Residence (alts. and add.),** 50 North Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, M. E. H. Gallagher, West Broad street, Bethlehem, Pa. Frame, 2 stories, 12x15 feet, slate roof, pine floors, hot water heat, electric light, general interior alterations. Contract awarded to Garber & Cissel, 12 West Fourth street, Bethlehem, Pa.

**School,** Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Sts. Simon and Jude Church, Rev. E. Stapleton, West Broad street, Bethlehem, Pa. Brick, steel, cut stone, 2 stories and basement, 60x90 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, roof ventilators. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

**Station (fire rebuilding),** Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Penn Independent Oil Co., Allentown, Pa. Reinforced concrete, 2 stories, 40x80 feet, built-up roof, metal lath, rolled steel sash, steel ceilings. Contract awarded to William Gangwere, Allentown National Bank Building, Allentown, Pa.

**Office (alts.),** Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Evening News, 5 North Main street, Wilkes-Barre, Pa. Plaster, plate glass, copper work, tile and marble work, metal lath, skylights. Contract awarded to O. J. Behrens, 179 Blackman street, Wilkes-Barre, Pa.

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**Road Work, Pennsylvania.** Owners, State of Pennsylvania, State Highway Department, Capitol Building, Harrisburg, Pa. Beaver County, Route 243, Section 2, Industry Township, length 21,986 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$203,961.15. Contract awarded to Chester General Cont. Co., East Liverpool, Ohio.

**Road Work, Pennsylvania.** Owners, Pennsylvania State Highway Department, Harrisburg, Pa. Mercer County, A-2255, Hempfield Township, 6,094 feet; one course reinforced concrete; \$45,656.40; contract awarded to M. Bennett & Sons, Indiana, Pa. Warren County, A-154, 1092 Farmington and Pine Grove Townships, 23,024 feet; either bituminous surface course on concrete foundation or one course reinforced concrete; assigned to Chiodo & Foley, Sheffield, Pa.; \$164,489.94.

**Bank, Hummelstown, Pa.** Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, Hummelstown National Bank, U. L. Balsbaugh, Hummelstown, Pa. Brick or stone, 1 story, 40x45 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, metal window guards, vault. Contract awarded to Samuel Schiffler, Hummelstown, Pa.

**Residence and Garage, Ardmore, Pa.** Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, G. Miller Knox, Ardmore, Pa. Stone, hollow tile and stucco, 2½ stories, 28x36 feet, and 1 story, 18x24 feet, shingle roof, hardwood floors, cement work, hot water heating, electric lighting, tile work. Contract awarded to Marianna & Co., Ardmore, Pa.

## New Jersey Construction News

**Residence, Trenton, N. J.** Architects, Fowler, Seaman & Co., Broad Street Bank Building, Trenton. Owner, Pierce Connor, 415 Greenwood avenue, Trenton, N. J. Stone, 2½ stories, 36x48 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence, Trenton, N. J.** Architects, Fowler, Seaman & Co., Broad Street Bank Building, Trenton, N. J. Owner, William Brammer, 904 Hamilton street, Trenton, N. J. Frame, 2½ stories, 36x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Factory, Trenton, N. J.** Architects, Fowler, Seaman & Co., Broad Street Bank Building, Trenton. Owners, New Jersey Porcelain Co., care of architects. Brick, steel, 1 story, 200x250 feet, slag roof, concrete and wood floors, electric light, rolled steel sash, fire doors, roof ventilators. Plans in progress.

**Residence, Bordentown, N. J.** Architects, Fowler, Seaman & Co., Broad Street Bank Building, Trenton, N. J. Owner, Horace Reeder, Bordentown, N. J. Frame, 2½ stories, 32x36 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**School Building (add.), Cottage No. 5, Connecting Tunnels, Cottage No. 1 for Girls, and Transformer House, near Trenton Junction, N. J.** Associate architects, Arnold H. Moses, Temple Building, Camden, N. J., and Guilbert & Betelle, Newark, N. J. Owners, New Jersey School for the Deaf, on premises. General construction, heating, plumbing, electric work, ventilating, draining, bond. Architects taking bids due January 31st at 2 P. M. at State House, Trenton, N. J. Deposit, \$50.00. Refund, \$50.00.

**Junior High School, Cadwallader street, Trenton, N. J.** Architect, Ernest Sibley, Palisades, N. J. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, School

Board of Trenton, R. C. Belville, secretary, 9 South Stockton street, Trenton, N. J. Brick, steel, fireproof, 2 stories, 380x410 feet, slate roof, hardwood floors, hollow tile, metal lath, safety treads, roof ventilators, marble and terrazzo work, rolled steel skylights, iron stairs, ornamental iron work, terra cotta, waterproofing and dampproofing (heating, plumbing and electric work and ventilating reserved), swimming pool and gymnasium. Owners ready for bids due February 1st.

**School, Browning road, near Haddon avenue, Collingswood, N. J.** Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, H. Milton Restruck, clerk, Collingswood, N. J. Brick and steel, 1 story, 88x62 feet, slate and slag roof, cement and pine floors, iron work, metal lath, tile work. Owners taking bids due January 25th.

**Sales and Service Building, Camden, N. J.** Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Neel Cadillac Motor Co., Camden, N. J. Brick, steel, reinforced concrete, cut stone and limestone, 4 stories and basement, 64x88 feet, slag roof, cement floors, elevators, waterproofing and dampproofing, iron work, bond, tin-clad doors, rolled steel sash, terrazzo work, metal lath, steam heat, electric light. Architects taking bids due January 19th.

**Apartment Hotel, West State street and Chancery Lane, Trenton, N. J.** Architect, Waler H. Hankin, 39 East State street, Trenton, N. J. Owner, Charles H. Hildebrecht, Trenton, N. J. Reinforced concrete, brick and steel, 9 stories, 165x67 feet, slag roof, granolithic, composition, pine and oak floors, elevators, metal ceilings, terra cotta, iron work, floor hardener, kalamein doors, hollow metal sash and skylights, tile and marble work, electric lighting, metal lath. Architect taking bids due January 23rd.

**Residence and Garage, Llewellyn Park, West Orange, N. J.** Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Robert W. Tilney, West Orange, N. J. Brick, 2½ stories, 50x98 feet, and 1 story, 22x22 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Architects taking bids due January 29th.

## Delaware Construction News

**Hospital Building, Clayton street, between Seventh and Eighth streets, Wilmington, Del.** Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Sisters of St. Francis, care of Bishop John J. Monaghan, 1301 Delaware avenue, Wilmington, Del. Brick and stone, 3 stories and basement. Plans in progress. Too early for details.

**Administration Building, Wilmington, Del.** Architects, associate, W. T. Thompson, 342 Madison avenue, New York City, and Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Y. W. C. A., Dr. H. J. Stubbs, chairman Building Committee, 1204 Delaware avenue, Wilmington, Del. Reinforced concrete, brick, steel, cut stone and granite, 5 stories and basement, 140x87 feet, slag roof, concrete, cork tile and maple floors, hollow tile, elevators, metal weather strip, waterproofing, iron work, iron stairs, bond, fire doors, rolled steel sash, rolled steel skylights, tile and marble work, steam heating, electric lighting, metal lath. Bids due January 20th.

## Miscellaneous Construction News

**Church Building, Brooklyn, N. Y.** Architect, Emile G. Perrot, 1211 Arch street, Phila-

delphia. Owners, St. Patrick's Roman Catholic Church, Rev. J. J. Kent, Brooklyn, N. Y. Brick, slate roof, steam heating, electric lighting, tile and marble work. Architect will be ready for bids in a few days.

## Proposals

### GENERAL ADVERTISEMENT ON THE CONSTRUCTION OF BUILDINGS FOR THE NEW JERSEY SCHOOL FOR THE DEAF, TRENTON JUNCTION, N. J.

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct an addition to the School Building, and Cottage No. 5 with connecting tunnels in the Primary Group; Cottage No. 1 of the Girls' Group and the Transformer House, all as shown on Plot Plan of the School for the Deaf, near Trenton Junction, N. J., will be received and opened by the Architects at the State House, Trenton, N. J., on January 31st, 1923, at two o'clock P. M.

The work for which Proposals are hereby invited covers the complete construction of an addition to the School Building, Cottage No. 5, and connecting tunnels in Primary Group, Cottage No. 1 of the Girls' Group, and Transformer House, including Plumbing, Electrical Work, Heating and Ventilating, and Drainage, all ready for movable equipment.

Bids will be received for the work under four separate contracts, as follows:

1. For General Construction of entire group of buildings consisting of the addition to the School Building, and Cottage No. 5 of the Primary Group, Cottage No. 1 of Girls' Group, and Transformer House.

2. For Plumbing work for entire group of buildings as above.

3. For the Electrical work for the entire group of buildings as above.

4. For the Heating work for the entire group of buildings as above, except Transformer House.

The right is reserved to accept or reject any or all Proposals, or to waive any informality in any Bid presented. All Bids must be in sealed envelopes endorsed, "Proposal for New Jersey School for the Deaf," and stating the branch of work covered. No Bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of five per cent. of the Bid, or Bid Bond in the like amount, binding the Bidder to execute a contract if awarded to him. The terms of Proposal with surety required are fixed by the Specifications.

Copies of the Drawings and Specifications will be on file at the office of the Architects for the purpose of estimating. A limited number of copies of the Plans and Specifications will be loaned to the prospective bidders on deposit of certified check to their order in the sum of Fifty Dollars (\$50). These plans may be obtained by application to Arnold H. Moses, Architect, Temple Building, 415 Market Street, Camden, New Jersey. If Plans and Specifications are returned on or before the submission of estimates the check will be returned, but should the Plans and Specifications be not returned, the deposit may become forfeited.

GUILBERT & BETELLE,  
ARNOLD H. MOSES,  
Associated Architects.

Dated January 9, 1923.



# PHILADELPHIA AS A BUILDING CENTER

## A Classified and Tabulated Statistical Review of Structural Activities During 1922

### Number of New Buildings Erected from January 1st to December 31st, 1922

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Operations.	Estimated Cost.
Amusements, Places of.....	..	..	..	..	..	1	..	..	2	1	2	..	6	\$1,396,900
Banks .....	..	..	..	..	1	1	..	1	..	..	3	..	6	1,020,000
Bath Houses .....	..	1	..	..	..	1	..	..	..	..	..	..	2	81,000
Charitable Institutions .....	..	..	1	1	1	1	1	..	..	..	..	..	5	1,653,800
Churches .....	1	2	1	2	3	3	3	2	3	1	..	1	22	1,311,700
Club Houses .....	..	..	..	..	1	..	1	1	..	2	1	..	6	409,425
Convents .....	..	..	..	..	..	..	1	..	..	..	..	..	2	164,585
Dwellings, one-story .....	..	..	1	2	2	1	1	4	..	..	..	..	27	92,050
“ two-story .....	376	515	1258	651	865	1079	692	927	807	692	507	458	8,827	41,794,825
“ three-story .....	18	20	83	66	62	52	62	28	40	38	40	42	551	6,618,495
“ frame .....	9	2	14	18	17	12	15	7	26	15	9	12	156	767,950
Engine and Boiler Houses.....	..	1	2	..	1	2	..	..	..	1	..	1	8	144,100
Garages .....	42	80	202	187	199	209	178	164	172	223	164	89	1,909	5,072,765
Gymnasiums .....	..	..	..	..	..	1	1	..	..	..	..	..	2	595,000
Halls .....	..	1	1	1	..	1	..	..	1	2	1	..	8	252,000
Hospitals .....	..	..	..	1	..	..	1	..	2	..	1	..	5	2,054,000
Hotels .....	..	..	..	2	..	..	..	..	..	..	..	..	2	2,600,000
Manufactories .....	5	4	18	13	10	11	5	6	13	6	9	8	108	8,287,510
Municipal Buildings .....	..	..	..	1	2	1	..	..	..	..	1	1	6	307,500
Miscellaneous Buildings .....	7	14	19	18	24	25	15	23	18	15	12	12	202	352,035
Office Buildings .....	2	2	6	5	2	7	7	6	5	3	5	2	52	8,132,990
Power Houses .....	..	1	..	..	1	2	1	1	1	..	..	..	7	316,000
Rooming Houses .....	..	..	..	1	..	1	..	..	7	..	1	..	10	220,000
Schools .....	..	1	3	3	..	2	..	1	1	1	2	4	18	6,701,700
Stables .....	..	..	4	..	3	2	1	2	2	..	1	1	16	84,225
Stores .....	8	9	7	23	11	12	10	16	18	5	8	6	133	1,357,170
Tenement Houses .....	5	3	2	7	2	4	1	2	1	18	1	4	50	4,388,500
Warehouses .....	1	2	6	4	10	8	2	6	5	9	5	4	62	1,977,900
Workshops .....	4	13	15	17	10	16	11	8	7	18	7	13	139	496,705
Total New Buildings.....	478	671	1643	1023	1227	1456	1009	1205	1136	1058	782	659	12,347	\$98,650,830
Additions .....	107	149	297	309	321	327	326	293	267	339	203	129	3,067	9,980,220
Alterations and Repairs.....	250	281	434	447	469	477	425	462	401	408	376	263	4,693	5,410,640
Grand Total .....													20,107	\$114,041,690
Fire Escapes .....													104	61,680
Heaters .....													128	79,365
Miscellaneous Work.....													1,811	537,470
Signs .....													438	160,835
Total work of all kinds.....													22,588	\$114,881,040



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## THE Fourth Street National Bank

### CONDENSED STATEMENT OF CONDITION

at Close of Business

DECEMBER 29, 1922

### RESOURCES

Loans and Investments .....	\$43,958,454.27
Customers' Liability under Letters of Credit and Acceptances .....	1,435,803.79
Due from Banks .....	12,729,854.02
Exchanges for Clearing House .....	1,760,587.73
Cash and Reserve .....	5,771,643.91

\$65,656,343.72

### LIABILITIES

Capital Stock .....	\$3,000,000.00
Surplus and Profits .....	8,705,619.00
Reserved for Taxes and Expenses .....	34,160.10
Letters of Credit issued to Customers, and Acceptances .....	1,436,744.79
Deposits .....	52,479,819.83

\$65,656,343.72

E. F. SHANBACKER, President

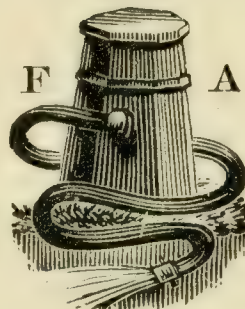
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W. K. HARDT, Vice-President	W. A. BULKLEY, Asst. Cashier
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OF PHILADELPHIA



Organized Sept. 1, 1817  
 Incorporated March 27, 1820

### PERPETUAL CHARTER

**Capital, \$1,000,000.00**  
**Assets, \$16,226,190.00**

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M. G. GARRIGUES, Sec. and Treas.
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Warren-Knight Co. ....136 N. 12th St., Phila.  
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Weil, J. H., Co. ....1315 Cherry St., Phila.

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Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

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## BUILDERS.

Atherholt, Samuel T. ....Narberth, Pa.  
Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CABINET WORK.

Weiss, George, & Co. ....1211 Mascher St., Phila.

## CEMENT.

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Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
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## CEMENT WORK.

Croyle, Guy .....Merion Station, Pa.  
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Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co.....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co. ....133 Arch St., Phila.

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Massiah, Frederick..Juniper and Cypress Sts., Phila.

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Stewart A. Jellett Co.....1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co..829 N. 3rd St., Phila.  
Contract Waterproofing Co. ..Harrison Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

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Weil, J. H., Co. ....1315 Cherry St., Phila.

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Cyclone Fence Co. ....18 S. 7th St., Phila.  
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Potts, Horace T. & Co.....316 N. 3rd St., Phila.  
Wayne Iron Works..Commercial Trust Bldg., Phila.

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Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co.....1332 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co.....1332 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros.....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

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Bowers Bros. & Co. ....1629 Ludlow St., Phila.

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Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.  
Richardson & Boynton Co.....1332 Arch St., Phila.

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Adelhelm & Phillips.....1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co....Widener Bldg., Phila.

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Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

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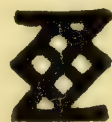


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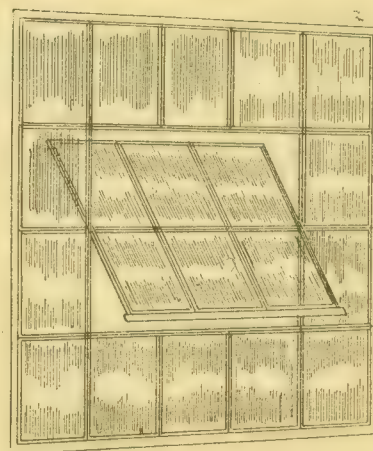
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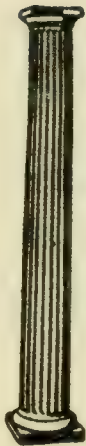
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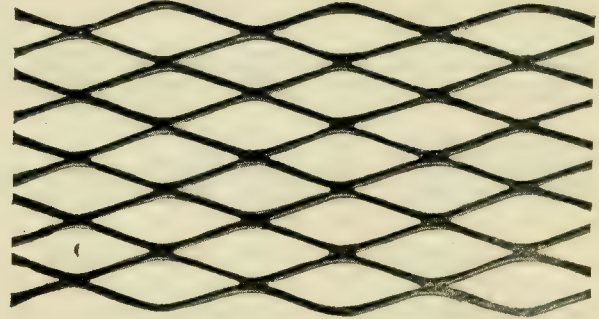
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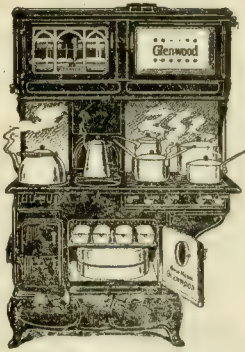
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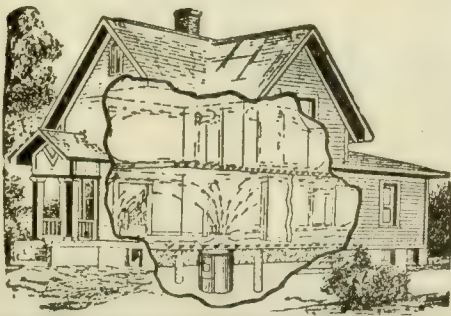
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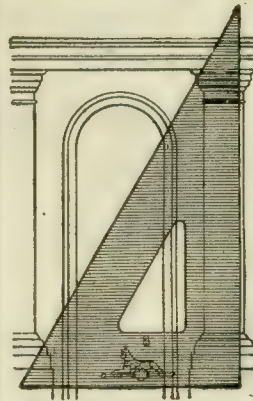
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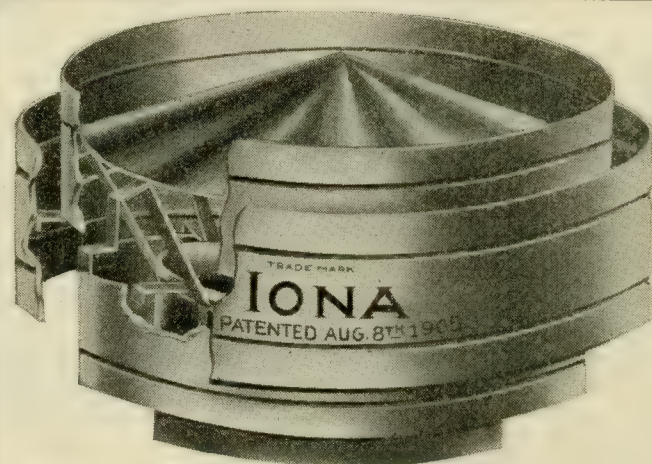


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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 4

PHILADELPHIA  
January 24, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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Advertising Manager, L. A. DeLone

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To all points in United States.....\$5.00 a year  
To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

Subscriptions not discontinued at expiration  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



THE experiment in the training of apprentices in the Building Trades will be of great interest during the ensuing year. Already the GUIDE has explained the plan inaugurated by the New York Congress, and methods employed in other localities. Further information concerning this work is found in the *American Contractor*. Says this paper:

Akron, Ohio, has a plumbing class of twenty apprentices who study four hours each week under the terms of the Smith-Hughes law. This group was formed in September, 1921. The progress has been splendid. Two classes of fifteen students each are now being taught plan reading and estimating at night classes. Two evenings a week are devoted to this instruction.

Most of the plan reading and estimating students are employed in contractors', engineers' and architects' offices. Their ages vary from 18 to 30 years. Mr. Waterhouse, director of trade extension, seems most willing to do everything possible to further apprenticeship training and continuation school work, but the local condition of the building industry has not been such as to allow any great expansion of the educational program. As soon as a revival in local building occurs more classes will be started.

In Binghamton, N. Y., numbers of apprentices were indentured in all trades in which mechanics were needed, and training classes for supplementary work

were inaugurated during May, 1922. The building trades unions co-operated in every way with the committee of the builders' exchange in the formation of these classes and the placing of the boys on the job.

They agreed also to accept as full fledged craftsmen every apprentice that could pass the test of qualification for the journeymen mechanics regardless of how quickly they were able to finish their training. Poster advertising was used to arouse public and industrial interest, and a committee was placed in charge to see that a square deal was given to apprentices and contractors concerned with the apprenticeship drive.

Buffalo, N. Y., has reported that one large concern in that city engaged in masonry construction work had not hired a union man in over thirty years but employed a large number of apprentices who kept the market fairly well supplied. No other training has been attempted according to our informant.

In Chicago there were a number of continuing schools operating under the direction of the school board, but no adequate effort was ever made to utilize them for building trades apprenticeship training purposes. On June 29, 1922, the Chicago Citizens' Committee to Enforce the Landis Award opened a plumbing class to aid men already at work at the trade to advance themselves in their craft.

On September 28, 1922, the Citizens' Committee opened a new school with a program along conventional continuation school lines for the supplementary training of apprentices. Classes in plumbing sheet metal work, carpentry, painting and decorating were organized and apprentices placed at work with Chicago contractors. This school was not placed under the Smith-Hughes law at its inception but may seek finances from that source later on.

Also the Joint Arbitration Board of the Associated Builders of Chicago and Local No. 1 of the Bricklayers' Union co-operated in starting a school for the preliminary training of apprentices in that trade.

In the fall of 1911 the bricklayers' union, Local 21 of Illinois, started a supplemental training school for apprentices that has been in operation ever since. Apprentice boys who are learning the trade, whether they are actually at work or not, go to this school one night each week and take up plan reading, drawing, the bonds of brickwork and an occasional lesson in practical work.

At present there are about a hundred and fifty apprentices attending the classes. The boys do not get paid for the time they put in at the school, but attendance is compulsory upon them by rule of the union. Owing to lack of an employment agency to maintain employment for students at all times, and be-

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cause contractors have been backward in volunteering such employment, it has been hard to keep the boys in the trade. Many have dropped out for months at a time, but have returned whenever conditions allowed them to do so, and since its inception, the school has done splendid work in helping them become better mechanics than they would have been without the supplementary training.

Several hundred apprentices now have been given preliminary training in the apprenticeship classes of Chicago and have been placed on the job to finish their apprentice training. They return to classes for four hours each week to receive additional instruction in theory and subjects related to their crafts. Night classes are being run to aid journeymen to extend their knowledge of various crafts. These night classes are largely occupied with plan reading, layout work, and advanced studies such as will aid men seeking a foremanship.

The Associated Building Contractors of Illinois with state headquarters in Chicago, have prepared to start a big apprenticeship training campaign of a statewide character. As a first step in such action a school for foremen will convene in Chicago in January, 1923. Later, apprentices will be indentured throughout the State, and some form of continuation school training will be installed through the co-operation of the division of vocational training of the Illinois department of education.

For two or three years Cincinnati has been developing the continuation school system under the Smith-Hughes law until it has one of the best organized industrial training courses in the country handled directly by the public school authorities. The building trades have been introduced into the curriculum only during the latter part of the history of this school, but splendid work has so far been accomplished.

Large classes in sheet metal work exist and smaller ones in other trades are already formed. Many local contractors are doing the best they can to push the work of the continuation school and are employing as great a number of apprentices as they can efficiently use; but greater co-operation by all contractors of the city has been urged.

In Cleveland some of the finest classes in bricklaying that have been organized in the country are enrolled in a continuation school which is operated under the Smith-Hughes law. Contractors and representatives of the union compose a committee that directs the apprenticeship training, and that has rendered a great service to the industry in the splendid manner in which it has brought the number of apprentices up to that of the capacity of the industry to furnish them employment. There is in

Cleveland, too, a plumbers' school which also operates under the provision of the Smith-Hughes law. About thirty-five apprentices are taking the training at the plumbers' school, while 165 bricklaying apprentices are enrolled.

A school for the instruction of electrical mechanics, operating on a basis not connected with the Smith-Hughes law, also exists in Cleveland and is a feature of several years standing in the electrical industry there. It is operated jointly by the union and the contractors. Recently a movement was launched to bring this school under the terms of the Smith-Hughes law as it is felt that greater satisfaction for the money expended can be secured.

Other schools have been contemplated but as yet none has actually been launched. A school for plasterers is needed badly together with a drive for the indenturing of apprentices, but local organization difficulties have prevented any action thus far.

At Detroit the Cass Technical High School was used for special classes in the building trades. The classes were established June 1, 1922. Boys were placed in shops as apprentices by members of the Associated Building Employers of Detroit at wages of 30 cents an hour. Schooling was planned as supplementary to the actual shop work. Results have not been entirely satisfactory to the contractors, and plans for putting more energy into the training of apprentices are being made.

At Fresno, Cal., the builders' exchange has launched a drive to start a plasterers' school. Funds have been raised and are now available. The school is expected to start with a full class of plastering apprentices.

Grand Rapids, Mich., organized classes in bricklaying during October, 1922. There are now thirty-six men in the evening classes which meet from 7 to 9.30 P. M. A class of about ten men to meet from 4 to 6.30 P. M. has been organized, and another class to meet from 1 to 4 P. M. is in process of formation.

The Los Angeles Board of Education, with the approval of the Chamber of Commerce, has started three classes in bricklaying. Materials have been furnished free of charge by public spirited business men and no tuition is asked from the students. A night class for those at work during the day aids them to further their skill. At the present time the plan is to run the courses for six months.

Oakland, Cal., started a bricklayers' school under the supervision of the Alameda County Builders' Exchange. First classes were held during the latter part of June. The school was planned to operate as a preparatory training school

(Continued on page 62)

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**Operation of Residences**, Northwood, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, P. J. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Plans in progress.

**Store Building**, Seventeenth and Ludlow streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Showell, Fryer & Co., Inc., 1517 Chestnut street, Philadelphia. Plans in progress. Too early for details.

**Factory Building**, Thirty-third and Arch streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Kraftsow & Titelman, care of architect. Plans in progress. Too early for details.

**Office Building**, 125 to 129 South Fifth street, Philadelphia. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owners, United States Fidelity & Guaranty Co., care of John Kent Kane, 315 Walnut street, Philadelphia. Brick, concrete, steel and stone. Plans in progress. Details undecided.

**Stores, (2) Dwellings and (2) Garages**, 5600 Rising Sun avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, A. Goldstein, 4813 Frankford avenue, Philadelphia. Brick, 2½ stories, 18x75 feet and 16x18 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile and marble

work, hollow metal sash, rolled steel skylights, bond, metal bulks. Plans in progress.

**Church**, Torresdale avenue and Howell street, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owners, Wissinoming Presbyterian Church, care of Rev. William Cook, 5817 Torresdale avenue, Philadelphia. Stone, first floor on present basement, 40x80 feet, slate roof, pine floors, steam heating, electric lighting. Plans in progress.

**Warehouse (add.)**, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, steel and concrete, second story add., 40x40 feet, slag roof, cement floors, alterations to steam heating, electric lighting, plastering. Plans in progress.

**Stores (7), Apartment Houses (8)**, Broad street and Tabor road, Philadelphia, \$250,000. Architects, H. E. Kennedy and Guy B. Johnson, 1324 Walnut street, Philadelphia. Owners, Louis H. Cahan & Son, 1324 Walnut street, Philadelphia. Brick, stone, concrete and steel, 4 stories, 50x112 feet, and 2 stories, 60x156 feet, slag roof, tile and marble work, plate glass, oak and pine floors, steam heating, electric lighting. Plans in progress.

**Residences (20)**, Cottman Park, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Shissler & Allan, Eleventh and Wolf streets, Philadelphia. Frame and stucco, 2 stories, (4) 25x32 feet, (16) 20x30 feet, shingle roof, hardwood floors, copper spouting, hot water heating, electric lighting, tile work. Owners will take sub-bids in two weeks.

**Apartments**, Forty-third and Chestnut streets, Philadelphia. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owners, Garden Court, on premises. Architect wants sub-bids at once on plastering, sheet metal work, slag and slate roofing.

**Main Building (add.)**, Brown's Farms, Forty-first Ward, Torresdale, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, City Hall, Philadelphia. Brick, blue-stone, concrete and steel and stucco, 3 stories, 40x100 feet, slag roof, cement, compo-

sition and pine floors, roof ventilators, iron work, metal lath, marble work. Owners will be ready for bids in ten days.

**Garage**, Wyoming avenue and Mascher street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, P. Randolph, Forty-first and Poplar streets, Philadelphia. Brick, 1 story, 50x200 feet, slag roof, steam heating, electric lighting, cement and wood floors. Owner will take revised sub-bids in a few days.

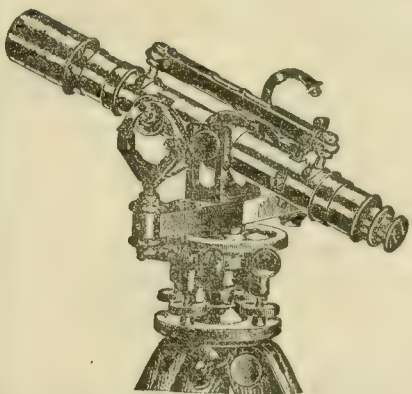
**Laundry (add.)**, Thirty-second street above Powelton avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Pennsylvania Laundry Co., on premises. Brick, slow burning, 80x92 feet, slag roof, maple floors, (1) elevator, roof ventilators, electric lighting, metal lath, fire doors. Plans in progress.

**Residences (69)**, "C" and Wyoming avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Kaplan, Sixtieth and Pine streets, Philadelphia. Brick, 2 stories, 18x32 feet and 15x39 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owner is taking sub-bids.

**Residences (24)**, Lippincott, Palethorp and Clearfield streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Harold C. Irvin, 721 Walnut street, Philadelphia. Brick, 2 stories, (12) 15x36 feet, (12) 15x40 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Owner is taking sub-bids.

**Store and Dwelling**, 6437 Rising Sun avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Harry Goldstein, on premises. Brick, 2 stories, 17x80 feet, slag roof, hot water heating, electric lighting, metal lath, tile and marble work, hollow metal sash, rolled steel skylights, bond, metal bulks. Architect and owner taking bids due as soon as possible.

**Stores, Offices and Art Gallery**, 1924-26 Chestnut street, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Philadelphia Art Gallery, Fifteenth and Chestnut streets, Philadelphia. Brick, concrete, steel and limestone, 4 stories and basement, 230x44 feet, slag roof, maple and cement floors, iron work, metal lath, tile,



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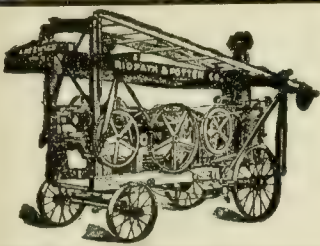
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**Building (alts.)**, Seventh and Eighth, on Market, and between Lippincott Building and Seventh street. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, S. D. and J. H. Lit, Eighth and Market streets, Philadelphia. Slag roof, maple floors, dampproofing, carpentry, millwork, painting, iron work, bond, hollow metal skylights, metal lath, plastering. Architect taking bids.

**Elevator Shafts**, Nos. 4, 5, 6 and 7, Eighth street building, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Concrete, brick, cut stone and steel, slag roof, composition floors, mosaic and oak floors, metal lath, marble work, hollow metal skylights, tin covered doors, bond, iron work, waterproofing. Architects taking bids.

**Building (alts.)**, 2042 Chestnut street, Philadelphia. Architects, Guy B. Johnson and H. E. Kennedy, 1324 Walnut street, Philadelphia. Owner, Harry Herzberg, 1725 Chestnut street, Philadelphia. Brick, steel and cut stone, 1 story, 30x20 feet, tile roof, oak floors, heating, lighting and plumbing alterations, metal lath, terrazzo and marble work, hollow metal skylights, bond, mill work, carpentry, painting, glazing, plastering. Architects taking bids.

**Store (alts. and add.)**, Seventh and McKean streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Isador Warshafsky, on premises. Interior alterations, plate glass, flush bulks, metal ceilings, marble work, mill work, hardwood floors, hot water heating, electric lighting. Owner is taking bids.

**Storage (add. and alts.)**, 12 and 14 South Sixth street, \$55,000. Architect, private plans. Owners, Garrett-Buchanan Co., 18 South Sixth street, Philadelphia. Brick, 4 stories, 41x65 feet, slag roof, steam heat, electric light, cement floors. Owners will build.

**Residences (3)**, 4514-16-18 Richmond street, Philadelphia, \$11,400. Architect, private plans. Owner, Antoni Bukowski, 4512 Richmond street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, steam heat, electric light, hardwood and pine floors. Owner will build.

**Garage**, 321-23-25 North Fifty-seventh street, Philadelphia, \$10,000. Architect, private plans. Owner, Thomas C. Duffy, 4607 Haverford avenue, Philadelphia. Brick, 1 story, 50x50 feet, slag roof, cement floors, electric light. Owner will build.

**Residences (2)**, 1105-07 Lindley avenue, Philadelphia, \$12,000. Architect, private plans. Owner, Matthew Della Porta, 1624

South Fifteenth street, Philadelphia. Brick, 2 stories, 18x32 feet, 14x24 feet, slag roof, oak and pine floors, electric light, tile work. Owner will build.

**Pump**, Northwest Corner Carbon and Tioga streets, Philadelphia, \$9,200. Architect, private plans. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. Brick, 1 story, 42x20 feet, slag roof, cement floors, steel sash. Owner will build.

**Garages (2)**, East side Mercer street, North of Allegheny avenue, \$6,000. Architect, private plans. Owner, William Furtek, 2619 East Allegheny avenue, Philadelphia. Brick, 1 story, 86x32½ feet, and 1 story, 17x96 feet, slag roof, cement floors, electric lighting. Owner will build.

**Service Station**, Northwest Corner Lansdowne avenue and Lancaster avenue, \$6,000. Architect, private plans. Owners, Gulf Refining Co., 516 Widener Building, Philadelphia. Brick, 1 story, 46x53 feet, slag roof, cement floors, electric light. Owners will build.

**Residence and Store (alts. and add.)**, 6309 Woodland avenue, \$4,800. Architect, private plans. Owner, M. Goldstein, on premises. Brick, 2 stories, 12x47 feet, slag roof, general alterations. Owner will build.

**Garage (fire repairs)**, Northeast Corner F and Tioga streets, \$2,000. Architect, private plans. Owner, F. K. Pierson, Clearfield and Kensington avenue, Philadelphia. General fire repairs. Owner will build.

**Sewage Disposal Plant**, Fortieth Ward, Philadelphia. Owners, Department of Public Works, Bureau of Surveys, City Hall. Lowest bidders: Lombardi & Co., Lincoln Building, Philadelphia, \$128,544.20; Lombardi & Yettman, Lincoln Building, Philadelphia, \$147,880.08. Creosoted wood walks at Northeast Sewerage Plant; J. B. McHugh, 892 North Markoe street, Philadelphia, \$3,795. Installing electric flood lighting system; W. B. Pangborne Co., 1927 West Montgomery avenue, Philadelphia, \$815. Sewer, Delaware avenue, from Bigler street to Snyder avenue; Lombardi & Co., Inc., Lincoln Building, Philadelphia, \$15,912.50.

**Residence**, Oak road, Germantown, Philadelphia. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress. Architect will be ready for bids in ten days.

**Office Building**, Thirteenth and Filbert streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, Joseph Catlan, et al., care of architects. Limestone, concrete and steel, 12 stories and basement, 72x106 feet. Architects taking bids due February 5th.

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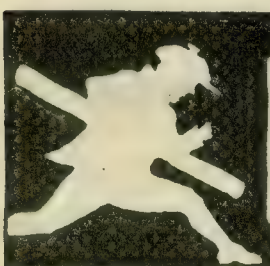
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**Spinning Mill, Dye House and Boiler House,** Sixty-eighth and Greenway avenue, Philadelphia. Architect, M. Ward Easby, 1814 Chestnut street, Philadelphia. Owners, Beswick & Clay Co., Inc., Twenty-fifth and Callowhill streets. Reinforced concrete and steel, 3 and 1 stories. Plans in progress. Too early for details. Architects and engineers will take sub-bids.

**Warehouse, "F" and Atlantic streets,** Philadelphia. Architects and engineers, M. Ward Easby, 1814 Chestnut street, Philadel-

phia. Owners, Pennsylvania Door & Sash Co., 25th and Callowhill streets. Brick, 1 story, 373x200 feet, slag roof, cement floors. Plans in progress. Details undecided. Engineers will take sub-bids.

**Stores (24) and Garage,** Broad and Shunk streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. P. Sharp, care of D. Phillips, Lincoln Building, Philadelphia. Owner taking bids due as soon as possible.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Sales Building,** 1312-14 Chestnut street, Philadelphia. Architects, Andrew J. Sauer & Co., Inc., Denekla Building, Philadelphia. Owners, Cunningham Piano Co., Eleventh and Chestnut streets, Philadelphia. Brick, reinforced concrete, precast stone, steel and cut stone, 15 stories, 104x38 feet, tile roof, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, terra cotta, iron work, iron stairs, rolled steel sash and doors, kalamein doors, tile and marble work, steam heating, electric lighting. Contract awarded to Hughes Foulkrod Co., Commonwealth Building, Philadelphia.

**Office Building,** Northwest Corner Ninth and Pine streets, \$150,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Federation of Jewish Charities, 1512 Walnut street. Reinforced concrete, brick, cut stone and artificial cut stone, 4 stories, 128x45 feet, asphalt and tile roof, concrete floors, metal lath, safety treads, waterproofing and dampproofing, iron work and stairs, bond, kalamein doors, hollow metal sash and skylights, tile and marble work (heating, electric work, plumbing and elevators reserved). Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

**Service Building,** 3020-32 Market street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Reynold H. Greenberg, Morris Building, Philadelphia, for Guy A. Willeys Motor Co., Broad and Vine streets, Philadelphia. Brick, cut stone, terra cotta and steel, 4 stories, 220x122 feet, slag roof, cement floors, dampproofing, iron work, bond, hollow metal skylights, rolled steel sash, marble and terrazzo work, demolition. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

**Residence (alts.) and Library Add.,** Forty-third and Locust streets. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, Dr. C. Lincoln Furbush, on premises. Brick and cut stone, 2 stories,

23x30 feet, slate roof, oak floors, bond, iron work (heating, electric work, plumbing and tile work reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building, Philadelphia.

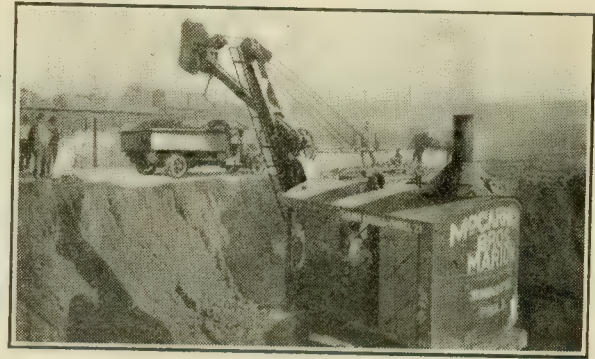
**Store (alts.),** Harrison and Griscom streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Miss C. L. Weidenmiller, care of architects. Brick work, concrete and cement work, cut stone, steel and iron work, slag roof, hot water heating, electric lighting, tile work, plumbing, painting. Contract awarded to Rush Brothers, 1016 Harrison street, Philadelphia.

**Watchman's House,** D street and Erie avenue, Philadelphia, \$12,500. Architects, William Steele & Sons So., 219 North Broad street. Owner, Horace T. Potts, 316 North Third street, Philadelphia. Brick, steel and concrete, 2 stories, 38x25 feet, slag roof, pine floors, metal lath, iron work, hot water heating, electric lighting, tile work. Contract awarded to Samuel Harting, 20 East Johnson street.

**Residence,** 4358 Bermuda street, Philadelphia, \$4,800. Architect, private plans. Owner, Adam Deluski, 4560 Bermuda street, Philadelphia. Brick, 2 stories, 15x55 feet, slag roof, electric lighting. Contract awarded to John J. Keenan, 8300 Cottage street.

**Loading Shed (add.),** Southwest Corner Ridge and Sedgley avenues, \$15,000. Architect, private plans. Owners, A. & P. Tea Co., on premises. Brick, steel, slag roof, cement floors, irregular size. Contract awarded to Turner Const. Co., 1713 Sansom street.

**Building (alts.),** Northwest Corner Thirteenth and Market streets, \$5,000. Architect,



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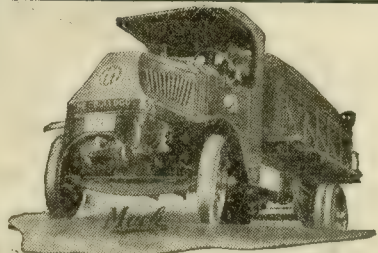
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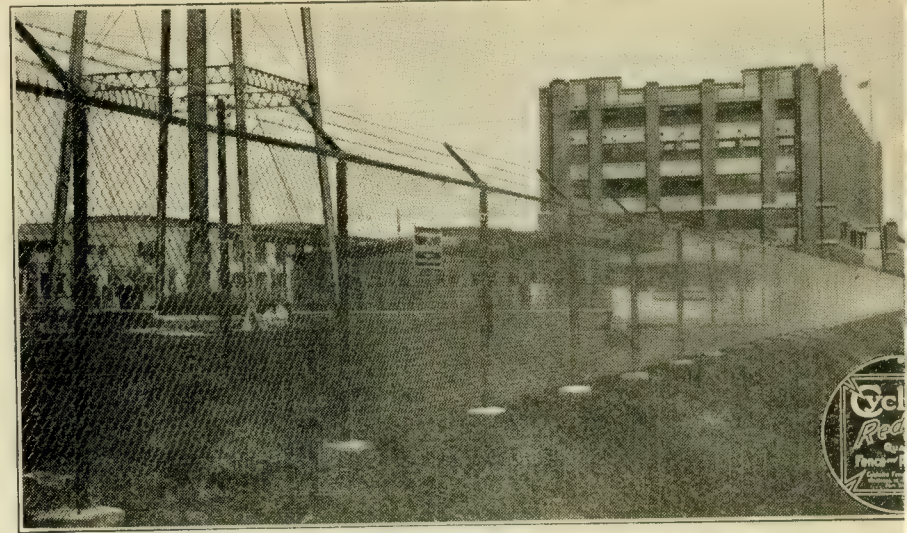
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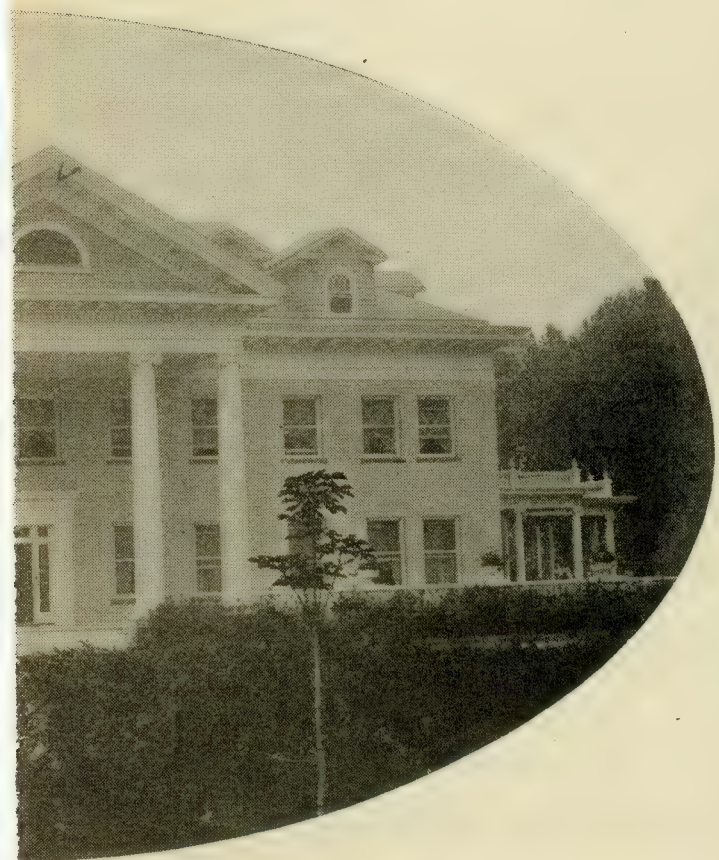
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private plans. Owners, Thirteenth and Market Streets Realty Co., on premises. Carpentry, mill work, plastering, painting, glazing, cement work, brick work, general alterations. Contract awarded to Curtis-Grindrod, 10 South Eighteenth street, Philadelphia.

**Residence**, East side Weymouth street, South of Cheltenham avenue, \$4,000. Architect, private plans. Owner, Walter J. Klenk, 210 East Allegheny avenue, Philadelphia. Frame, 2 stories, 23½x45 feet, electric light, pine floors. Contract awarded to Jacob Gaertner, 7225 Oxford avenue, Philadelphia.

**Residence and Store (alts. and add.)**, 426-28 South Front street, \$18,000. Architect, private plans. Owner, John B. Arata, on premises. Brick, 4 stories, 36x36 feet, slag roof, electric lighting, general alterations. Contract awarded to DeMosa & S. Goldberg, 1000 Oregon avenue.

**Storage Building**, Northeast Corner Twentieth and Erie avenue, \$15,000. Architect, private plans. Owners, The White Motor Co., on premises. Iron, 1 story, 60x176 feet, Truscon steel siding and roof, steel sash, cement floors, waterproofing. Contract awarded to Truscon Steel Co., 1432 South Penn Square.

**Building (alts.)**, 7222-24 Woodland avenue, Philadelphia, \$4,500. Architect, private plans. Owner, S. Knee, 135 South Forty-ninth street, Philadelphia. General alterations. Contract awarded to B. Shestack, 6010 Trinity street, Philadelphia.

**Apartment (add.)**, 406 South Forty-fifth

street, Philadelphia, \$3,000. Architect, private plans. Owner, Elizabeth C. Shearer, 5729 Spruce street, Philadelphia. Brick, 1 story, 10x19 feet, slag roof, pine floors, electric light. Contract awarded to John Hutt, 5919 Spruce street, Philadelphia.

**Residence**, West side Lawndale street, South of Bleigh street, \$6,200. Architect, private plans. Owner, William Richmond, Afton and Veree road, Philadelphia. Brick, 2 stories, 24x32 feet, 14x7 feet, slag roof, oak and pine floors, tile work, electric lighting. Contract awarded to Joseph Maulbecker, 1856 East Westmoreland street.

**Residence and Store (alts. and add.)**, 5123 Market street, \$6,000. Architect, private plans. Owner, Nerses Chamomian, on premises. Brick, 1 story, 4x28 feet, and 2 stories, 16x12 feet, slag roof, pine floors, electric lighting. Contract awarded to Felix Claro, 5439 Webster street, Philadelphia.

**Residence**, South side Rhawn street, East of Fairview avenue, \$4,700. Architect, private plans. Owner, William T. Smith, Rowland avenue, Fox Chase, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, oak and pine floors. Contract awarded to Chancellor Day, 3503 Decatur street, Philadelphia.

**Residence (add.)**, 950-52 Daly street, Philadelphia, \$2,500. Architect, private plans. Owner, M. Rodig, 921 Daly street, Philadelphia. Brick, 2 stories add., 12x10 feet, slag roof, pine floors. Contract awarded to J. Pellegriinis, 717 Tasker street, Philadelphia.

**Residence (alts.)**, 334 South Sixteenth

street, Philadelphia, \$2,500. Architect, private plans. Owner, Charles Keeferle, 1631 Locust street, Philadelphia. General alterations. Contract awarded to M. M. Barndt, 4732 North Fifteenth street, Philadelphia.

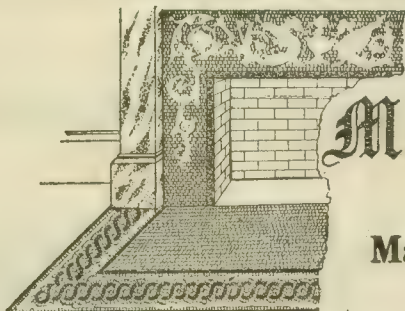
**Store and Storage (alts.)**, 229-31 South Tenth street, Philadelphia, \$2,500. Architect, private plans. Owner, James S. Simpkins, 231 South Tenth street, Philadelphia. Carpentry, mill work, painting, glazing, plastering, alterations. Contract awarded to Charles H. S. Zebley, 340 Quince street, Philadelphia.

**Residences and Stores (2) (alts.)**, 1923-25 South street, \$2,500. Owner, A. Brezel, on premises. General alterations. Contract awarded to M. Sklar, 628 Pine street, Philadelphia.

**Office and Store add. and alts.)**, 1309 Sansom street, \$2,200. Owner, Dr. John F. Mitchell, on premises. Brick, 1 story, 15x4 feet 6 inches, slag roof, pine floors, electric work. Contract awarded to George H. Evans, 105 North Thirteenth street, Philadelphia.

**Building (alts.)**, 2630-32 Germantown avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Malvin Frankel, Front and Dauphin streets, Philadelphia. Carpentry, mill work, painting, glazing, new store front, bulk windows, plate glass. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

**Store and Dwelling**, 1447 South street, \$4,000. Architect, private plans. Owner, H. Potamde, on premises. General alterations. Contract awarded to L. Freedman, 314 McKean street, Philadelphia.



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**Apartment House (alt.)**, 407 South Forty-second street, Philadelphia, \$5,500. Architect, private plans. Owner, Francis J. Kelly, 2035 Chestnut street, Philadelphia. General interior alterations. Contract awarded to William A. Ruth, 7019 Pennsylvania avenue, Bywood, Delaware County.

**Store and Dwelling (add.)**, 1124 Walnut street, Philadelphia, \$5,000. Architect, private plans. Owner, W. A. Borden, on premises. Brick, 2 stories, 17x21 feet, slag roof, electric lighting, oak and yellow pine floors, hot water heat. Contract awarded to Edward F. Judge, 3003 Richmond street, Philadelphia.

**Store and Storage (alt. and add.)**, 41 North Thirteenth street, \$3,000. Architect, private plans. Owners, Sturm & Sturm, 4026 Lancaster avenue, Philadelphia. Brick, 1 story,

5x13 feet, slag roof, electric work, yellow pine floors. Contract awarded Leonard Will, 651 North Frazier street, Philadelphia.

**Apartment House (alt.)**, 1722 North Seventh street, Philadelphia, \$2,000. Architect, private plans. Owner, Mrs. J. B. Holton, 1722 North Eighth street, Philadelphia. General interior alterations. Contract awarded to Jowe Sklar, 1613 North Thirteenth street, Philadelphia.

**Rooming House (alts.)**, 732 North Nineteenth street, Philadelphia, \$2,000. Architect, private plans. Owner, Edward Abrams, 17 North Thirteenth Street, Philadelphia. Carpentry, mill work, painting, glazing and plastering. Contract awarded to J. H. Jones, 1240 West Lehigh avenue, Philadelphia.

## PENNSYLVANIA

# Construction News

**Y. M. C. A. Building**, Norristown, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, and Harry Gordon McMurtrie, associate, 1012 Walnut street, Philadelphia. Owners, Y. M. C. A., H. C. Gresh, Norristown, Pa. Brick, reinforced concrete and cut stone and cut castone, 3 stories, 176x72 feet, slag roof, cement and maple floors, hollow tile, roof ventilators, waterproofing, iron work, floor hardener, bond, rolled steel skylights, hollow metal sash, tile and marble work, metal lath (heating, electric work, plumbing and ventilating reserved). Architects taking bids due February 2nd.

**Peabody High School**, Margareta, Beatty and Highland avenue, Pittsburgh, Pa. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh, Pa. Owners, Board of Education, George W. Gerwig, secretary, Office of the Superintendent, Fulton Building, Pittsburgh, Pa. Brick, reinforced concrete, cut stone and steel, 2 stories and basement, 302x61 feet and 148x24 feet, composition roof, linotile, cement and maple floors, hollow tile, elevators, safety treads, metal weather strips, waterproofing, terra cotta, iron work, bond, kalamein doors, rolled steel sash, tile, marble and terrazzo work, metal lath. Owners taking bids due February 1st.

**School**, Mill Creek, Pa. Architects, Department of Education, Harrisburg, Pa. Owners, Mill Creek School Board, Mill Creek, Berks County, Pa. Brick, 1 story, 83x57 feet, slag roof, pine floors, electric light. Owners taking bids due February 13th.

**Private School**, Ardmore, Pa. Architect, J. J. Kennedy, Industrial Trust Building, Wilmington, Del. Owner, name withheld. Stone, fireproof, 3 stories 100x60 feet. Plans in progress.

**Residences (4)**, St. Davids, Pa. Architect,

John Charles Norton, Ardmore, Pa. Owner, Henry Silvert, Bryn Mawr, Pa. Stone, brick and stucco, 2½ stories, 26x38 feet, shingle (stained) roof, hardwood floors, hot water heating, electric lighting, tile work. Architect will take general bids in two weeks.

**Residence and Garage**, Malvern, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, W. Bingham Kay, care of architect. Frame or hollow tile and stucco, 2½ stories, 30x40 feet, and 1 story, 20x20 feet, composition slate roof, hardwood, pine and cement floors, steam vapor heating, electric lighting. Architect taking new bids due as soon as possible.

**Residence**, Ardmore, Pa. Architect and owner, Thomas W. Sears, 1424 Walnut street, Philadelphia. Stone, 2½ stories, 102x31 feet and 27x30 feet, slate and canvas roof, oak, pine and cement floors, electric light, metal lath, tile work, iron work. Owner taking bids due January 31st. E. R. Hall, 34 South Seventeenth street, is figuring.

**Grange Hall**, Knottingham, Chester County, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, Benet Coales, Knottingham, Pa. Frame, 2 stories, 60x40 feet, shingle roof, hardwood floors, hot air heat, electric light, kitchen and auditorium equipment. Owner will sub-let.

**Residences (4)**, New street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Charles Green, 942 Buchanan avenue, Lancaster, Pa. Brick, 2½ stories, 22x28 feet, slate roof, pine floors, hot air heat, electric light. Owner will build.

**Bank**, Ephrata, Pa., \$100,000. Architect,

E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata National Bank, care of H. Hebshman, Ephrata, Pa. Stone, 1 story, 53x90 feet, marble floors, steam heat, electric light, tile and marble work, metal lath, rolled steel skylights, bank fixtures, roof ventilators, metal weather strips. Architect taking bids due February 20th.

**Eagles Home (alts. and add.)**, Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Fraternal Order of Eagles, Lebanon Aerie, No. 472, P. B. Young, secretary, Lebanon, Pa. Architects selected.

**Bank**, Newport, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, First National Bank of Newport, care of architects. Marble or limestone, 1 story, 34 feet frontage, slate roof. Too early for details.

**Residence and Garage**, Wyomissing, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Dr. J. Livingston, Wyomissing, Pa. Stone, 2½ stories, irregular size, hardwood floors, electric light, tile work. Preliminary plans in progress.

**Bank and Office Building (add.)**, Third and Market streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Mechanics' Trust Co., J. C. Motter, on premises. Terra cotta, fireproof, 9 stories, 55x36 feet, composition roof, tile and concrete floors, electric light, elevators, tile work, rolled steel skylights, ornamental iron work. Preliminary plans in progress.

**Residence**, Front and Woodbine streets, Harrisburg, \$100,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, H. B. King, Second street, care of architect. Fireproof, Indiana limestone, 3 stories, 50x80 feet, tile roof, hardwood floors, vapor heat, electric light, tile and marble work, paneling, ornamental plaster. Plans in progress.

**Sunday School**, Lemoyne, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, United Evangelical Church, Rev. Crumbling, Lemoyne, Pa. Stone, 1 story and basement, 54x80 feet, composition roof, pine floors, steam heat, electric light, tile work. Plans in progress.

**Club House**, Sunbury, Pa., \$35,000. Architect, not yet selected. Owners, Susquehanna Valley Country Club, care of W. R. Rohrbach, Chairman of Building Committee, Sunbury, Pa. Too early for details. Architect not selected.

**Store, Office and Apartments**, Market and Duke streets, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, John E. Graybill, 104 East Market street, York, Pa. Brick and steel, 4 stories, 30x262 feet. Plans completed. Will be ready for bids about March 1st.

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**Hall**, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, G. Harel Gundry, 319 North Fifth street, Reading, Pa. Brick, terra cotta and iron, 2 and 3 stories, 70x100 feet and 47x130 feet, steam heat, electric light, Carey roof, hardwood floors, roof ventilators, elevator lift, tile, marble and terrazzo work, rolled steel skylights. Plans in progress.

**Library Building (John Stewart Hall)**, Chambersburg, Pa., \$75,000. Architects, Furness Evans Co., 315 South Fifteenth street, Philadelphia. Owners, Wilson College, George H. Bartle, manager, Chambersburg, Pa. Stone, 2 and 3 stories. Preliminary plans in progress.

**Church**, Conshohocken, Pa. Architect, M. B. Bean, Lansdale, Pa. Owners, Italian Catholic Church, care of architect. Stone, 1 story and basement, 44x90 feet. Sketches being prepared.

**High School**, Enola, Pa., \$50,000. Architect, C. J. Lappley, 200 Locust street, Harrisburg, Pa. Owners, East Pennboro Township School Board, Mr. Hoffman, secretary, Enola, Pa. Brick, 2 stories and basement, 37x116 feet, 42x92 feet, composition roof, pine floors, hot air heat, electric light, hollow tile, metal lath, safety treads, roof ventilators, rolled steel skylights. Will be ready for bids February 1st.

**Office and Industrial Building**, Reading, Pa. Architects, Gerhard Brothers, 619 Penn street, Reading, Pa. Owners, W. H. Luden, Inc., 216 North Eighth street, Reading, Pa. Steel, brick, 6 stories, 66x110 feet, built-up roof, wood floors, vacuum heat, electric light, elevators, hollow metal sash and skylights, fire doors. Plans in progress. Architect ready for sub-bids.

**Factory (add.)**, Reading, Pa. Architects, Gerhard Brothers, 619 Penn street, Reading, Pa. Owners, W. H. Luden, Inc., 216 North Eighth street, Reading, Pa. Mill construction, 1 story add., 66x100 feet, built-up roof, wood floors, electric light, skylights. Architects sub-letting.

**High School**, Collingdale, Pa., \$150,000. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, School District of Collingdale, Andrew Patton, president, Collingdale, Pa. Brick or stone, 2 stories. Details undecided. Preliminary plans in progress.

**Residences (7) and Stores (3)**, Unruh and Cheltenham road, Lawndale, Pa. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Babis & Bender, Rising Sun avenue, Philadelphia. Brick, 2 stories, 15x42 feet and 18x64 feet, slag and asbestos shingle roof, hardwood floors, metal ceilings, flush bulks, tile and marble work, electric lighting, hot water heating. Owners taking sub-bids.

**Residences (2)**, Highland Park, Pa. Architect, E. William Martin, 2126 Pine street, Philadelphia. Owner, Mr. Bramhall, care of architect. Frame and stucco, 2½ stories,

24x30 feet and 25x39 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Plans completed.

**Twin Residence**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Thomas Harrison, Ardmore, Pa. Brick and plaster, 2½ stories, 36x38 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Hotel (alts. and add.)**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Ardmore Hotel, Ardmore, Pa. Brick and steel, fireproofing, hardwood floors, plate glass, metal ceilings, metal window set, leaded transoms, plate glass mirrors, terrazzo floors, hollow metal sash. Plans in progress.

**Residences (14)**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Eastwood & Louder, Atlantic City, N. J. Brick and plaster, 2 stories, 16x37 feet, slag and tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**High School**, Bridgeport, Pa. Architect, H. Courcy Richards, 618 Chestnut street, Philadelphia. Owners, Board of Education, School District, Bridgeport, Pa. Brick, cut stone, steel and reinforced concrete, 2 stories, 140x64 feet, composition roof, concrete floors, roof ventilators, metal ceilings, dampproofing, waterproofing, iron work, bond, rolled steel skylights, metal lath (heating, lighting and plumbing reserved). Architect taking bids due February 5th at noon.

**Fire House**, Fourth and Lewis streets, Lancaster, Pa. Architect, not selected. Owners, Riverside Fire Co., C. N. Carl, 301 Edward street, Lancaster, Pa. Brick, 2 stories, 53x140 feet. Work contemplated.

**Office and Apartment (alts. and add.)**, East Orange street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Clergymen's Beneficial Association, Mr. Helm, Lancaster, Pa. Brick, 3 stories, 50x70 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work, roof ventilators, rolled steel skylights. Plans in progress.

**Residence and Garage (operation)**, North Front street, Harrisburg. Architect, private plans. Owner, J. W. Pomraning, Kunkel Building, Harrisburg, Pa. 2½ stories. Work contemplated.

**Residence**, Dauphin, Pa. Architects, Lawrie-Green Co., Commonwealth Building, Harrisburg, Pa. Owner, Brown Welker, Dauphin, Pa. Local stone, 2 stories, 30x35 feet, shingle roof, hardwood floors (heating reserved), electric light, tile work. Plans in progress.

**School**, Troy, Pa. Architects, Lawrie-Green Co., Commonwealth Building, Harrisburg. Owners, Troy School Board, W. R. Croman, secretary, Troy, Pa. Brick, fireproof, 2 stories, 265x110 feet, slate roof, hardwood and composition floors (heating and electric work reserved), metal lath, safety treads, roof ventilators, skylights, waterproofing and dampproofing, iron stairs. Owner will be ready for bids about February 1st.

**Store and Apartment (alts. and add.)**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, B. Charles and David Ellison, Lancaster, Pa. Brick, steel, 1 and 4 stories, 38x160 feet, built-up roof, hardwood and pine floors, electric light, general interior and exterior alterations.

tions. Architect ready for bids due January 30th.

**Garage**, Harrisburg, Pa. Architect, private plans. Owner, J. B. Brenner, 1422 Green street, Harrisburg, Pa. Brick, 1 story, 105x65 feet, slag roof, concrete floors, electric lighting. Owner will build.

## Pennsylvania Contracts Awarded

**Show Room**, Main street, Darby, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Harry Swope, Darby, Pa. Brick and granite, 1 story, 50x62 feet, slag roof, tile floors, metal lath, iron work, fire doors, metal bulks, steam heating, electric lighting. Contract awarded to Christian E. Hansen, 52 Penn Boulevard, East Lansdowne, Pa.

**Residence**, Seventeenth and Forster streets, Harrisburg, Pa. Architect, C. J. Lappley, 200 Locust street, Harrisburg, Pa. Owner, J. W. Appleby, 216 South Second street, Harrisburg, Pa. Stone and stucco, 2½ stories, 60x29 feet, slate roof, composition and oak floors, electric light, tile work. Contract awarded to H. A. Hipple, Harrisburg National Bank Building, Harrisburg, Pa.

**Residences (2)**, Narberth, Pa. Architect, private plans. Owner, William Nagle, Narberth, Pa. Hollow tile and stucco, 2½ stories, 32x36 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Merion Const. Co., 2315 Walnut street, Philadelphia.

**Residences (2)**, County Line and Cricket avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Merion Const. Co., 2315 Walnut street, Philadelphia. Hollow tile and stucco, 2½ stories, 32x36 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa.

Beaver County, Route 1, Section 1, Industry and Borough Townships; \$205,028.35. Contract awarded to Fred. D. Ross, Bradford, Pa.

Mercer County, Route 82, Greenville Borough, Hempfield and Sugar Grove Townships, \$132,399.52. Contract awarded to M. Bennett & Sons, Indiana, Pa.

## New Jersey Construction News

**Store (alts. and add.)**, 25 South Broad street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Philadelphia Bargain Store, 25 South Broad street, Trenton, N. J. Brick, 1 story, 70x100 feet, hardwood floors, electric light, plate glass, copper work, general interior alterations. Plans in progress.

**Shop Building (add.)**, School of Industrial Arts, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, care of Mr. Fell, City Hall, Trenton. Brick, reinforced concrete, 2 stories, 60x125 feet, slag roof, concrete and wood

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block floors, steam heat, electric light. Plans in progress.

**Store (alts. and add.),** Broadway and Pine streets, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, William L. Hurley, on premises. Concrete, cut stone, brick, granite and steel, 4 stories and basement, 80x28 feet, slag roof, cement floors, dampproofing, terra cotta, iron work, rolled steel sash, tile, marble and terrazzo work, metal lath. Architect taking bids due February 1st.

**Store and Apartment (alts.),** Warren street, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owner, S. B. Shankman, 137 South Broad street, Trenton, N. J. General interior alterations. Plans in progress. Owner will take bids.

**Parkway School and Auditorium,** Ewing Township, Mercer County, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Ewing Township Board of Education, C. W. Lathum, secretary, care of architect. Brick, 1 story and basement, 115x127 feet, slag roof, pine and hardwood floors (heating, plumbing and electric work reserved), metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, bond. Architect ready for bids.

**Club House,** Princeton, N. J. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, Cloister Inn Club, Princeton, N. J. Brick, 2½ stories, 67x84 feet, slate roof, hardwood floors, vapor vacuum heating, electric lighting. Plans in progress. Architect will be ready for bids in four weeks.

## New Jersey Contracts Awarded

**Residence,** Greenwood avenue, Trenton, N. J., \$6,500. Architect, private plans. Owner, Miller Margerum, care of builder. Frame, 2 stories, 23x37 feet, shingle roof, pine floors, electric light. Contract awarded to W. R. Ivins, 717 Greenwood avenue, Philadelphia.

**Residence,** 235 Cook avenue, Trenton, N. J., \$6,000. Architect, private plans. Owner, Paul Range, care of builder. Frame, 2 stories, 18x34 feet, shingle roof, pine floors, electric lighting. Contract awarded to G. W. Harle, 1967 Nulldingham street, Trenton.

**Residence,** Hamilton street, Trenton, N. J., \$6,000. Architect, private plans. Owner, J. H. Wright, 858 Berkeley avenue, Trenton, N. J. Frame, 2 stories, 14x47 feet, slate roof, pine floors, electric light. Contract

awarded to J. Thomson, 50 Murray street, Trenton, N. J.

**Factory,** Camden, N. J. Architects, Stone & Webster, Real Estate Trust Building, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Reinforced concrete and steel, 8 stories, 60x434 feet, slag roof, reinforced concrete floors, elevators, roof ventilators, waterproofing, floor hardener, fire doors, rolled steel sash, electric lighting, steam heating. Contract awarded to Stone & Webster, Real Estate Trust Building, Philadelphia.

## Delaware Construction News

**School,** Claymont, Del. Architects, Coffin & Coffin, 522 Fifth avenue, New York. Owners, Board of Education of Claymont, care of Delaware School Auxiliary Association, 8124 Dupont Building, Wilmington, Del. Brick and concrete, 2 stories, 286x69 feet, auditorium and gymnasium, 75x66 feet (heating and ventilating, plumbing, electric work separate bids), architectural terra cotta, built-up roof, waterproofing, dampproofing, terra cotta, cement, tile and terrazzo floors, cement hardener, marble work, slate work, slate blackboards, iron and steel, iron stairs and ladders, flag pole, wire guards, fire doors, dumb waiter, kalamein doors and frames, metal lath, metal ceilings, saw-tooth skylights. Lowest bidders: General, John E. Healy & Son, 707 Tatnall street, Wilmington, Del., \$314,547. Electrical work, Electric Const. Co., 111 West Eighth street, Wilmington, Del., \$11,790. Heating and ventilating, Chesapeake Copper-smith Co., Baltimore, Md., \$28,856. Plumbing, Burton L. Market, Chester, Pa., \$18,645.

**Church,** Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Architect selected. Too early for details.

**Parish House,** Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Architect selected. Too early for details.

**Store (alts.),** Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, Max Keil, 300 East Fourth street, Wilmington, Del. General interior alterations, hardwood and tile floors, plate glass, copper work, steel work (structural). Owner will sub-let.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

## Miscellaneous Construction News

**Church,** Ozone Park, Long Island, N. Y. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Mary's Gate of Heaven Roman Catholic Church, Ozone, Long Island. Brick and stone, 66x176 feet, slate roof, steam heating, electric lighting. Plans in progress.

**Gymnasium and Swimming Pool,** Fordham, N. Y. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Fordham University, Fordham, N. Y. Stone, 125x225 feet. Plans in progress. Too early for details.

**Church,** Brooklyn, N. Y. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Patrick Roman Catholic Church, Brooklyn, N. Y. Brick, 2 stories, 80x146 feet, slate roof, wood and linotile floors, electric work, plumbing, marble work, terra cotta, ornamental plastering (steam heating separate bids). Architect taking bids due January 31st.

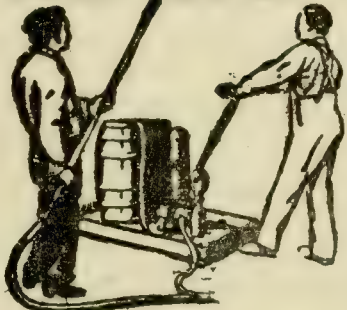
**Residence,** Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, L. Wilson Gray, Winston-Salem, N. C. Hollow tile and stucco, 2½ stories, 27x46 feet, (2) wings 16x27 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile work. Architect is ready for bids.

**Parish House,** Winchester, Virginia. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Grace Lutheran Church, Rev. A. A. Kelly, on premises. Brick, 1 story and basement. Preliminary plans in progress.

**Warehouse,** Virginia, Fourth and D streets, Washington, D. C. Architect, Appleton P. Clark, Jr., 816 Fourteenth street, N. W., Washington, D. C. Owners, Terminal Refrigerating & Warehousing Co., Washington, D. C. Reinforced concrete, brick and steel, 8 stories and basement, 203x67 feet and 207x91 feet, slag roof, concrete and wood block floors, waterproofing and dampproofing, terra cotta, steam heating, electric lighting. Contract awarded to Consolidated Engineering Co., Calvert Building, Baltimore, Md.

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## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 18, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 15, 1923, for furnishing and installing laundry machinery at the U. S. Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office or at the office of the Superintendent of Construction, at Chelsea, N. Y., in the discretion of the Supervising Architect. Proposals will be considered only from individuals or firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Jan. 17, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 7, 1923, for the Mechanical Equipment (exclusive of outside services, elevators, lighting fixtures and certain equipment) of the Administration Building and Mess Hall and Kitchen Building, at the U. S. Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

Treasury Department, Supervising Architect's Office, Washington, D. C., January 20, 1923.—SEALED PROPOSALS will be opened in this office at 3 P. M., February 14, 1923, for an ice making and refrigerating plant at the U. S. Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtaining a set of plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulation. Jas. A. Wetmore, Acting Supervising Architect.

### GENERAL ADVERTISEMENT ON THE CONSTRUCTION OF BUILDINGS FOR THE NEW JERSEY SCHOOL FOR THE DEAF, TRENTON JUNCTION, N. J.

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct an addition to the School Building, and Cottage No. 5 with connecting tunnels in the Primary Group; Cottage No. 1 of

the Girls' Group and the Transformer House, all as shown on Plot Plan of the School for the Deaf, near Trenton Junction, N. J., will be received and opened by the Architects at the State House, Trenton, N. J., on January 31st, 1923, at two o'clock P. M.

The work for which Proposals are hereby invited covers the complete construction of an addition to the School Building, Cottage No. 5, and connecting tunnels in Primary Group, Cottage No. 1 of the Girls' Group, and Transformer House, including Plumbing, Electrical Work, Heating and Ventilating, and Drainage, all ready for movable equipment.

Bids will be received for the work under four separate contracts, as follows:

1. For General Construction of entire group of buildings consisting of the addition to the School Building, and Cottage No. 5 of the Primary Group, Cottage No. 1 of Girls' Group, and Transformer House.
2. For Plumbing work for entire group of buildings as above.
3. For the Electrical work for the entire group of buildings as above.
4. For the Heating work for the entire group of buildings as above, except Transformer House.

The right is reserved to accept or reject any or all Proposals, or to waive any informality in any Bid presented. All Bids must be in sealed envelopes endorsed, "Proposal for New Jersey School for the Deaf," and stating the branch of work covered. No Bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of five per cent. of the Bid, or Bid Bond in the like amount, binding the Bidder to execute a contract if awarded to him. The terms of Proposal with surety required are fixed by the Specifications.

Copies of the Drawings and Specifications will be on file at the office of the Architects for the purpose of estimating. A limited number of copies of the Plans and Specifications will be loaned to the prospective bidders on deposit of certified check to their order in the sum of Fifty Dollars (\$50). These plans may be obtained by application to Arnold H. Moses, Architect, Temple Building, 415 Market Street, Camden, New Jersey. If Plans and Specifications are returned on or before the submission of estimates the check will be returned, but should the Plans and Specifications be not returned, the deposit may become forfeited.

GUILBERT & BETELLE,  
ARNOLD H. MOSES,  
Associated Architects.

Dated January 9, 1923.

(Continued from page 52)

which would give boys between the age of 18 and 22 years a chance to learn the rudiments of the trade. Each graduate from the school was guaranteed a job as a bricklayer.

The State of Massachusetts has passed some very liberal laws which encourage the schooling of apprentices. In several trades students may be employed to work directly on commercial buildings without being indentured to employers. While the construction industry has taken advantage of the situation only in a very limited way, the supplementary training courses of the Massachusetts

Institute of Technology and several technical high schools in the state have aided in the production of skilled workmen in some of the building trades. What is needed is a more aggressive plan for utilizing the training courses that today are only being taken by a very few.

Milwaukee has for years been perfecting a continuation school system that is now in a position to aid in the training of any apprentice group in industry. Not only are indentured boys taught the theory of their trades and related subjects but youngsters that are not sure which trade they wish to choose for their life work are aided in making a choice. In addition to this big continuation school program there is a Boys' Technical high school that furnishes instruction, along different lines, to electrical workers, carpenters, cabinet makers and plumbers in the building trades. This school attempts to duplicate within the institution the conditions of the job. It is a practice distinctly different from the method used by the bigger continuation school, which seeks rather to co-operate with bona fide contractors and give supplementary training to apprentices actually at work in the trades.

Minneapolis together with its twin city, St. Paul, established a bricklayers' school in March, 1921. This school is supervised and financed by contractors and employers and is not run in connection with the public school system. The unions have not sanctioned its operation and give it no co-operation whatever. Methods used in teaching are to combine job work with theoretical training and school practices.

A tuition fee of \$25 is charged but this is refunded if the apprentice attends 75 per cent. of his classes. The course seeks to give students the rudiments of the bricklaying trade so that they may go out to work on the actual construction jobs, where they complete and perfect their knowledge and skill.

Six months is the extent of the course planned. About 150 men have been put through the school since it was started. It is estimated that 400 bricklayers are still needed in the community. There is also in Minneapolis a privately endowed industrial school known as the William Hood Dunwoody Institute that has carried courses in carpentry, building construction, drafting and estimating for several years.

These courses have been of service both to young boys who later entered into an apprenticeship, to apprentices who attended night school there, and to journeymen that desired to perfect their knowledge of the craft they had chosen.

From the nature of the work done no strictly craft lines were observed in the teaching except in the carpentry classes. In November, 1922, however, a class in



plumbing was organized which included twenty-five apprentices, and which was started in co-operation with the Minneapolis Retail Plumbers' Association. Students while employed as apprentices by master plumbers of the city attend continuation school at Dunwoody Institute. A second class is now in process of formation. All enrolled students will be paid for the time of their attendance as in the usual continuation school method.

At New Orleans the Delgado Central Trades School, an endowed institution presented to the city of New Orleans and operated under the control of board of managers appointed by the mayor, opened its doors in August, 1921. Six building trades are being taught. Methods used are not those of the continuation school,—the students are instructed throughout by teachers and do not work directly on the jobs of contractors. It is aimed to give them in three years the instruction equivalent of a four year apprenticeship. Considerable time is devoted to supplementary education also.

In Philadelphia the Industrial Relations Committee of the Chamber of Commerce has carried on considerable preparatory and educational work preliminary to the establishing of apprenticeship training systems. A plastering school is being planned, and will be functioning early in the year.

Pittsburgh has been educated through the Builders' Bulletin to the need for training craftsmen and made acquainted with the agencies in the city that can aid in the work. The Carnegie Institute of Technology offers to any apprentice or student a training course which will supplement his apprentice work, increase his knowledge of his craft, and allow speedier development of skill.

It teaches, in addition to this supplementary work, plumbing, carpentry, bricklaying, sheet metal working, electric wiring, structural drafting, building trades drafting, heating and ventilating, concrete work, masonry practise, plan reading and estimating. The Ralston Industrial School, operating under the Smith-Hughes law, also furnishes instruction to apprentices in the wood working and electrical trades.

At the Latimer Junior high school courses in wood working, electric wiring and sheet metal work are given under the Smith-Hughes law. These schools are ready to handle as large a number of boys as may be employed in any of the building trades. They can train them in a manner that will bring immediate results if a system of co-ordinating employment service with school attendance is furnished by the employers.

Little has been done as yet in an organized way. The splendid work of the Builders' Bulletin in educating the

members of the exchange to the possibilities for co-operative effort is one bright feature of the Pittsburgh situation. Big constructive work is looked for from this section in the near future.

Salt Lake City, Utah, started a bricklaying class at the West Side high school of that city during September, 1922. The course now comprises half day sessions at the school each week day. Afternoons and evenings are spent on the jobs of various contractors and material concerns which provide employment for the students while they are going to school. Practical trowel handling and construction work is taught in the school, besides plan reading, drawing and the theories of the bonds of brickwork. A practical contractor is instructing the class, and while it is small compared with the needs of the community, progress has been satisfactory and the school may be expanded during the near future.

San Francisco started a school for the training of plasterers in May, 1922. This is the first, and so far as has been reported, the only school for the training of plasterers in this country. Not only is no tuition fee charged, but all married men who take the course are paid \$2.50 a day. A twelve weeks' course turns out a man capable of doing rough plastering work, and these graduates are taken on to the job where they are taught other details of the trade.

Advanced plastering is also a feature of the school and ornamental and fancy work is taken up for the benefit of graduates and journeymen plasterers who desire to enlarge their knowledge of the craft.

Within a few days of the starting of the plastering school a plumbing school was launched. Plumbing apprentices go to school only part of the time after finishing their preliminary two weeks of intensive training. Other crafts are to be taken up by the Industrial Association, and schools will probably be started in tile setting and lathing in the near future.

St. Louis has a privately endowed school, known as the David Rankin, Jr., School of Mechanical Trades, which gives instruction in carpentry, plumbing, painting and decorating. The courses call for two years' attendance and take all the time of the student. There are also night school classes which furnish continuation instruction for apprentices who desire it. Special preliminary and advanced courses of one year each also are provided.

A tuition fee of \$45 a year is charged for the regular courses. No plan of co-operation has been worked out by either the contractors or the unions in regard to using the school to greater advantage in the present shortage of mechanics.

St. Paul schools are operated together with the training schools of Minneapolis.

Youngstown, Ohio, has laid a foundation for splendid co-operation between the school authorities and the construction industry. Because of local conditions of stagnation in building, however, no progress has been made in extending the field of training outside of the plumbers' school which was established in 1921 and which has been most successful. The system used is that of a continuation school. Students attend classes while employed on jobs. Training will probably be extended to other trades when local building starts with increased volume.

At Tuskegee, Ala., the Tuskegee Institute has established a class for the training of bricklayers. This school is conducted for the benefit of colored people, and a large class has been enrolled in the bricklaying trade. The course covers three years and is intended to cover all phases of the work.

This is an imposing list of schools. The majority of them have been started only within the year, and those previously in existence have had most advantage taken of them only during this late period. Much work remains to be done in this field. It is worse than unfortunate that only one city has attempted to start a plastering school. San Francisco stands alone in this respect, though, as stated, Philadelphia and Fresno, Cal., are each preparing to establish one. But ten thousand plasterers are needed in the industry by next spring. If we don't start training them soon we will not have them ready by spring four years from now.

The continuation school system, which allows the apprentice to earn wages at his trade and at the same time learn as much of the theory and the clerical end of the craft as he can readily assimilate, seems to be the most popular among both the contractors and the apprentices and journeymen. There is no end of opportunities for training apprentices. It is up to the contractors of the country to take advantage of them. The Smith-Hughes law stands ready to guarantee finances for any bona fide training effort.

Vocational training schools have seldom been used to capacity and little has been done in most places to get contractors to co-operate with such institutions and unite in pushing a unified apprenticeship training drive. We look for greater progress on a national scale during 1923 than has been evidenced in 1922. The outlook is encouraging, though our efforts still fall far behind our needs.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.



## STRIKES BLAMED FOR HIGH COSTS AND EXCESSIVE RENTS

In an advertisement published in local newspapers not long ago the American Plan Association attributes the high cost of building and the consequent high rentals to "strikes and restricted production due to closed shop conditions." This statement may—in a measure—be justified. Strikes and "restricted production" may add something to the cost of building but just what proportion of the increased cost can be fairly chargeable to these admitted nuisances is a question which neither the American Plan Association, nor anyone else, can answer with any degree of accuracy. Other items of cost that enter into building construction can be more easily gotten at; the tremendous increases in these other items in recent years are unquestionably more to blame for the present high prices of buildings than are strikes or restrictions on production. So if anyone is really solicitous concerning the burdens placed upon the public by reason of increased costs and rentals, why not start with something that is tangible and can be definitely proven. We are thoroughly agreed that a closed shop condition is not especially conducive to cheap construction but we deem it scarcely fair to place all of the blame for high prices and high rentals on labor unions.

Take, for example, the cost of financing building operations. This is a matter that can be readily investigated by anyone desirous of ascertaining definite causes of increase in cost. Numerous buildings about Cleveland, some in course of construction, some just finished and some not quite started would furnish good evidence. It would not be a surprise to many who are familiar with conditions if it were found that from one-tenth to one-fifth of the entire cost of the building was absorbed as a charge for the use of the money. In a few cases it probably would be even higher than we state. How many building projects are attempted nowadays without recourse to first, second and third mortgages—or bond issues—to secure the money necessary to erect the structures? And what is the entire cost to the owner of the money thus secured? What proportion of the increased cost of a building is directly chargeable to financing in cases where banking institutions, mortgage companies, realty companies and construction companies are all mixed up in the same operation? And doesn't the cost of this financing add to the investment in the project just as though it were that much money spent for lumber, brick, steel or any other material entering into the construction? Or for the labor necessary to fabricate the various materials?

We have heard for years the continuous

complaint of the terrific increases in the price of labor and materials in the building business; this industry, it would appear, has been singled out for especial condemnation. Perhaps it's because the achievements of the industry are so obvious. Every one can see a building being erected—most every one at some time or another has a desire to own a building. Buildings are necessary. Other things, however, are almost quite as necessary and have increased in cost just as much. Do we hear so much about them? No, there is apparently a desire to soft-pedal the sad news.

In the building trades there is a scarcity of labor and, in recent times, a scarcity of materials. Isn't it quite natural that both should increase in cost? Costs have increased in other business where the conditions are quite the reverse. It's not long ago that we were told that hides were so numerous they were being burned—or buried—or in some manner destroyed—but did anyone notice any appreciable decline in the tremendous prices we were paying for shoes? Neither did we. Newspapers doubled their price and it's still doubled. Telephone rates jumped sky-high. Meats, eggs, milk, cream, candy, ice cream, collars, gloves, advertising rates, dentists' and doctors' fees, auto licenses, police court costs, hair-cuts, shaves, funeral notices, caskets, rough-boxes, grave-digging—most everything you can imagine—added much to the cost of living and the expense of dying. But do you hear the incessant clamor of complaint about these? No—everyone's picking on the building business; somebody started the fashion and it's become quite a fad.

The high wages paid in the building trades in the larger cities of the country are not due entirely to strikes. Here in Cleveland building mechanics are being paid rates greatly in excess of what they demanded when strikes occurred or were threatened early in last year. In some trades where no strikes occurred and there was a peaceable settlement of the wage question, wages are higher than either the union officials or the employers contemplated. This is undoubtedly because the number of men available is not sufficient to supply the demand created by the big building program. The scarcity of men is oftentimes charged to the restrictions of unions as to the number of apprentices that may be employed. This is only partially true. During the past few years it has been extremely difficult to secure apprentices—not primarily because of opposition on the part of unions but rather because of economic conditions. Young men were in such demand in other lines of endeavor that few could be induced to learn the building trades. Were there no restrictions at all concerning apprentices we

would not be a great deal better off than we are. This condition is being remedied now and some of the unions are a much greater factor in remedying it than any other agency.

A lessening of production always accompanies a scarcity of help—just as higher wages go hand in hand with a demand for labor. This is true of every industry, and conditions in this respect in the building business are no worse than in shops, factories, stores or offices when business is big and help scarce.

The advertisement of the American Plan Association before referred to makes the further statement that "The chief breeder of strikes \* \* is the closed shop." This is unquestionably true. A "strike" in an "open" shop is a rarity.—*Building Industry.*

The BUILDERS' GUIDE is in its thirty-eighth year of continuous publication.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

A certain wall-board man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co., Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop, 1520 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T., Narberth, Pa.  
Mitchell Bros., 2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFrain Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CABINET WORK.

Weiss, George, & Co., 1211 Mascher St., Phila.

## CEMENT.

DeFrain Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy, Merion Station, Pa.  
Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co., Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co., 133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Contract Waterproofing Co., Harrison Bldg., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## EXCAVATING.

Croyle, Guy, Merion Station, Pa.  
McCarrick Bros., 3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## FENCES.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co., 316 N. 3rd St., Phila.  
Wayne Iron Works, Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Thos. F. Gibson, Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.  
Fitzgerald, J. J., & Co., 2nd and Butler Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros., 44 N. 5th St., Phila.  
Miller, Henry M., 46 N. 2nd St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros., 44 N. 5th St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## GRATES.

Pralatt Equipment Co., Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros., 3138 N. 24th St., Phila.  
Riddle, Wm. H., 1110 S. 81st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co., 1629 Ludlow St., Phila.

## HEATING BOILERS.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H., 27th and Diamond Sts., Phila.  
Fitzgerald, J. J., & Co., 2nd and Butler Sts., Phila.  
Ketcham, O. W., 121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co., 1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W., 18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard, 3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co., 10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co., 433 Spruce St., Phila.  
Roman Mosaic & Tile Co., 435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co., Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Wayne Iron Works, Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc., 1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories, 1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W., 121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co., 910 Filbert St., Phila.

Weber, F., Co., 1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co., 44 N. 5th St., Phila.

Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.

## RANGES

Borden Stove Co., 1026 Arch St., Phila.  
Miller, Henry M., 46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co., 1026 Arch St., Phila.  
Miller, Henry M., 46-48-50 N. 2nd St., Phila.

## ROAD WORK.

Croyle, Guy, Merion Station, Pa.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co., Otis Bldg., Phila.  
Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co., Bethlehem, Pa.  
Emack, The John D. Co., Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W., 121 N. 18th St., Phila.  
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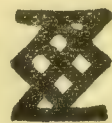
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Entered at the Philadelphia Post Office as Second-Class Matter

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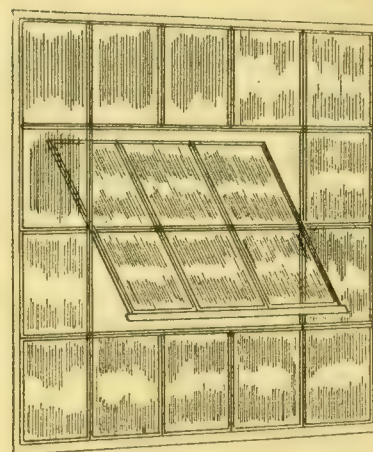
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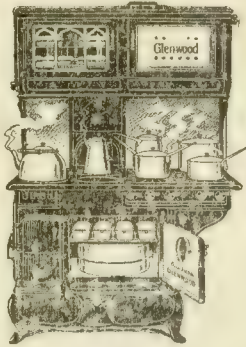
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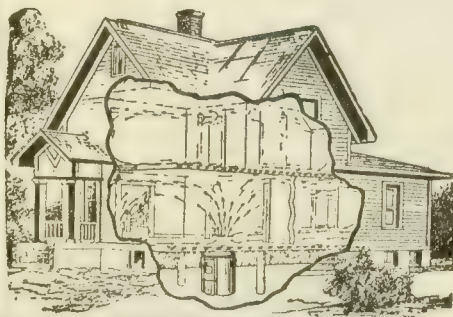
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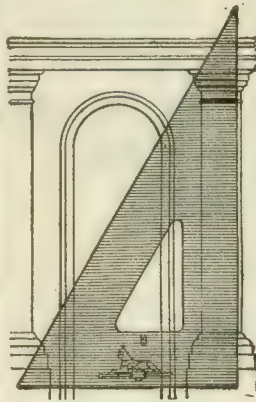
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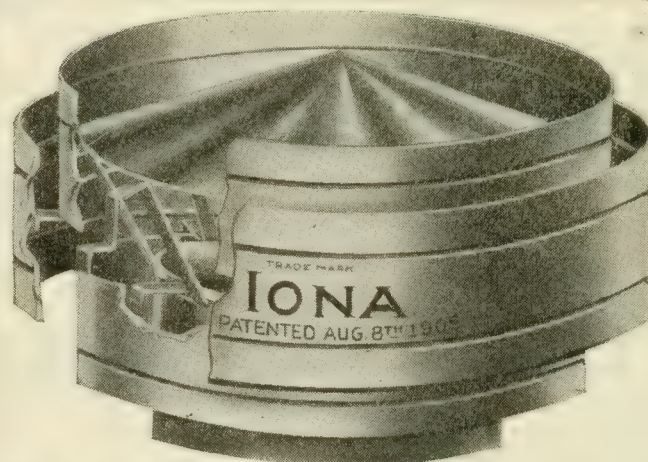


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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 5

PHILADELPHIA  
January 31, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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To all points in Canada..... 5.50 a year  
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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### THE TASK AHEAD FOR BUILDING

BY FRANKLIN D. ROOSEVELT

*President, American Construction Council*

**“W**HAT are the great major industries upon which the wealth and the stability of the nation are founded?”

Put that question to the first ten laymen you meet. I venture the prediction that nine of the ten, in their answers, will omit the second greatest industry. They will include agriculture, manufacturing, transportation and communication, mining and lumber.

One of the greatest creators of permanent wealth, as well as one of the foundation stones upon which the industrial structure of our country is built, is the construction industry. It is second only to agriculture—viewed from the standpoint of the yearly volume of dollars involved—and is really entitled to rank first when measured by the number of men who are dependent upon the industry for a livelihood. Basing the figures upon a careful survey, it is, I believe, safe to say that the number of workers who, together with their families, depend upon the construction industry for a livelihood, totals more than eleven million persons, or about 10 per cent. of the population of the United States.

There are times when even the Federal Government does not seem fully to ap-

preciate the importance of the Construction industry. When the Interstate Commerce Commission recently issued its ruling No. 23 allocating freight cars to the coal industry primarily with a view to the nation's warmth this winter, more than 3,000 protests were made. One of them was from the construction industry. Under the order, only 18,000 cars would have been available for the execution of a construction program estimated to be \$15,000,000,000 in arrears; and it was shown to the commission that such a ruling would imperil the well-being of millions of workers and tend greatly to increase the army of unemployed during the winter months.

As a result of this protest the order was so amended as to allot 34,000 additional cars to construction activities. But even this total of 52,000 cars was only one-third the number actually required.

That was the first time in history that the number of cars needed by the construction industry ever had been computed. Yet the figures were vital in a great national crisis, and certainly it is reasonable to suppose that, in addition to the Interstate Commerce Commissioners, the men who manufacture transportation equipment are interested in them, no less than thousands of others actually engaged in any of the numerous professions and businesses which go to make up the construction industry.

Not long ago a questionnaire was sent

to twelve leading banks. One of the questions asked was what percentage of the credit funds for 1923 would be devoted to the construction industry. Not one of the bankers could answer the question, although bankers are an intelligent and alert lot of men. They had never thought of construction as an industry, as they had thought of agriculture or manufacturing. They had thought of it as an assemblage—a loose assemblage—of industries, a hodge-podge, not as a unit. And there was good reason for their thinking so. Its component parts were scattered, their work sometimes overlapped, and the industry as a whole was in a semi-chaotic condition.

The American Construction Council was formed to unify the industry, not only in public and official thought, but in its actual operation. It is to supply both a laboratory and a hospital service, and one of its first laboratory tasks will be the accumulation of data such as I have described. Its organization came as a result of a natural economic demand, and construction is the first great industry to take the step. The nearest approach to it is the effort to co-ordinate the principle factors in the motion-picture industry. The council will embrace not only architects, engineers, contractors, material and equipment manufacturers and dealers, bond, insurance and real estate interests and the principal construction departments of public utilities,

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but officials of municipal, state and federal construction departments.

When the council was organized last June, Herbert Hoover, who presided, said:

"It is a step I have long looked for—advocated during the past year. We have made some attempts to secure solution, and I do believe that in bringing all the elements of the construction industry here to see whether or not joint action can be secured, you are taking one of the most important steps ever taken in the history of this nation."

John M. Gries, chief of the Housing Division of Mr. Hoover's department, has said, in speaking of the lack of unity among the members of the industry:

"Now when they have begun to see more clearly that they all have many interests in common, that conditions favoring active construction favor all, and that a sound construction industry is of the highest public interest, the situation is improving. The giant has awakened. He now knows that his arms and his legs are a part of him. He knows that no matter which member is injured, he suffers. With this awakening we will see great improvements in the industry."

These are inspiring utterances because they betoken official recognition of the important task the council has undertaken; and Mr. Gries, when he spoke of the fact that an injured arm or leg hurts the whole industry, touched upon the hospital service which must be part of the council's work. We may say, for instance, that one of the allied branches of the industry—it perhaps would be unfair to be more specific—is suffering just now from a broken leg. It has lost public confidence. Just after the World War, we will say, it was found guilty of practices which the council today would not tolerate. As a result of these practices, corporations, and individuals who were thinking of building hesitated or postponed their improvements until a later date. Naturally, the whole industry was made to suffer.

This particular branch of the industry that I am using as an illustration has tried home remedies. It has tried to mend its broken leg, but it was not successful. We are hopeful, however, that the hospital service supplied by the council may be more effective. The council can collect statistics covering the entire nation which the associations representing the allied branches of the industry cannot collect, because the council will serve merely in an advisory (and to some extent disciplinary) capacity. It will be just what it is called—a council, not a new trade association. It can appoint a commission to make an impartial inquiry into conditions in the various branches of the industry or any one particular branch, and its report to the pub-

lic will carry a weight which the protestations of reform of any particular unit of the industry cannot have.

In this connection it may not be amiss to call attention to a clause in the by-laws of the council:

The council shall not concern itself with problems that distinctively come within the province of a particular group except such as may be detrimental to the general welfare of the construction industry and the public.

If it be true that a law should be the natural outgrowth of the conscience of the community it affects, it is no less true that rules governing the conduct of the construction industry must well forth from the conscience of the whole membership from the sub-contractor to the most distinguished architect. It is only so that the code of ethics can be enforced, and one of your early duties will be the formulation of such a code. Another important step will be the establishment of an apprenticeship system, which will serve a two-fold purpose: It will tend to offset the national shortage of trained men in the allied branches in the industry, and at the same time to give the young men who enter the constructive industry crafts a pride in their work and a desire to have their sons follow in their footsteps.

This, after all, is the heart of the American Construction Council movement—that its ills shall be cured, its abuses eliminated, not by governmental and court action but by voluntary work of the industry itself. It is this that marks the movement as one of the big forward steps in American industrial organization. And it was just such a policy that Herbert Hoover undoubtedly had in mind when, in his very able address before the organization meeting of the council last June, he said, "You are taking one of the most important steps ever taken in the history of this nation." Only recently, the Attorney General of the United States, in an authorized interview in *The Nation's Business*, said: "Business has a conscience; business as a whole is inherently honest."

Those affiliated with this movement are fully in accord with Mr. Daugherty in this respect, and it is our desire to translate into action what the Attorney General has put into words. It is our desire and our aim to bring together the many component parts which make up the industry and carefully to analyze their common problems looking toward a better understanding of them and towards a satisfactory solution of these problems. In other words, it is my desire and the desire of these responsible for the organization of this movement that the construction industry work out its own salvation. In doing this, of course, a tremendous amount of work naturally falls

(Continued on page 78)

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**Stores and Apartments (2)**, Southeast Corner Tenth and Girard avenue. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, A. Richlyn, on premises. Brick, 3 stories, 16 feet 6 inches x 24 feet, slag roof, yellow pine floors, hot water heat, electric light, metal lath, tile and marble work, hollow metal skylights, store fixtures, metal bulks. Plans in progress.

**Store and Residence**, 523 Bainbridge street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, J. D. Weiss, 520 Bainbridge street, Philadelphia. Brick, 2 stories, 20x70 feet, slag roof, hardwood and yellow pine floors, hot water heat, electric light, metal lath, tile and marble work, skylights, metal ceilings, store fixtures, metal bulks. Plans in progress.

**Store and Dwelling (alts. and add.)**, Southeast Corner Sixth and Callowhill streets, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, Mrs. R. Turnoff, on premises. Brick, 3 stories, 19x25 feet, slag roof, pine floors, hot water heating, electric lighting, plumbing, plate glass, flush bulks. Plans in progress. Architect will be ready for bids February 1st.

**Residence**, Allen Lane and McCallum street, Philadelphia. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owners, Mrs. Mary Fuchs, 528 East Washington Lane. Stone, 2½ stories, 26x70 feet, hot water or vapor heating, hardwood floors (slate roof reserved), electric lighting, tile and marble work. Plans in progress.

**Playground (Mill Creek)**, Forty-eighth and Brown streets, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Board of Recreation, Bureau of Public Welfare, 595 City Hall, Philadelphia. Concrete wall, sidewalks, painting, iron fence and gates, cement steps. Revised plans in progress.

**Apartments (alts. and add.)**, 1300 North Broad street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Charles Jamison, care of architect. Brick, 4 stories, 25x145 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, elevators. Plans completed. Ready for bids.

**Residence**, Chestnut Hill, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Charles J. McManus, Wissahickon avenue and Carpenter Lane. Stone, 2½ stories, 28x15 feet, wing 16x18 feet, shingle roof, pine floors, metal lath, dampproofing, iron work, stone foundations, electric lighting, hollow metal sash. Revised plans completed. Architects ready for bids.

**Twin Residences (12)**, Park Lane, West of Wissahickon Drive, West Pelham, Germantown. Architect, Fred. N. Greisler, 1035 Walnut street, Philadelphia. Owners, L. Rudolph Mollenick, 1414 South Second street, and S. Stanley Solomon, 349 Hansberry street. Brick, stone and stucco, 2 stories, 23x38 feet, garages, 20x22 feet, asbestos shingle roof, hardwood and cement floors, hot water heating, electric lighting, tile work. Architect is taking sub-bids.

**Rooms, Nos. 450 to 454 (alts.)**, City Hall, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property. Redecorating, marble work, regilding, plastering, wood work, partitions. Owners will be ready for bids in a few days.

**Residences (7)**, Morton and Duval streets, Germantown, Philadelphia. Architect, private plans. Owner, William Cooper, 4667 North Sixteenth street, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner is taking sub-bids.

**Apartment House**, Forty-sixth and Walnut streets, Philadelphia. Architect, private plans. Owner, Thomas H. Hargest, 501 North Fifty-second street, Philadelphia. Reinforced concrete, brick, cut stone, 6 stories and basement, 208x124 feet, slag roof, concrete, oak and yellow pine floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow tile, elevators, rolled steel sash and skylights, floor hardener, dampproofing, terra cotta. Owner taking bids due February 3rd.

**Warehouse (alts. and add.)**, Southeast Corner Second and Turner streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Key-

stone Spinning Mills Co., on premises. Brick, reinforced concrete, 2 stories, 60x94 feet, slag roof, cement floors, safety treads, roof ventilators, dampproofing, iron work, bond, tin-clad fire doors, rolled steel sash and skylights. Architects taking bids due February 2nd.

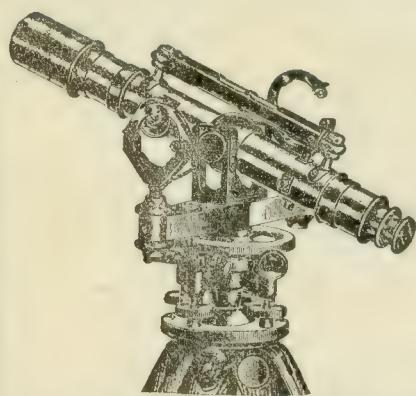
**Residences**, Rumford road and Ardleigh street, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Albert E. Bruen, 1705 West Montgomery avenue, Philadelphia. Stone, 2½ stories, 26x60 feet, slate roof, oak and pine floors, iron work, bond, tile work (heating, lighting and plumbing reserved). Architect taking bids due February 2nd at noon.

**Building**, 12 to 16 South Marshall street, Philadelphia. Architect, David B. Bassett, 1420 Locust street, Philadelphia. Owners, Quaker City Rubber Co., 624 Market street, Philadelphia. Reinforced concrete, brick and steel, 2 stories, 56x28 feet, slag roof, cement and maple floors, electric lighting, rolled steel sash, hollow metal doors, bond, iron work, terra cotta. Architect taking bids due February 3rd at noon.

**Ball Room**, Woodside Park, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Woodside Realty Co., Woodside Park, Philadelphia. Carpentry, mill work, hardware, iron work, composition floors (maple floors reserved), painting (electric work reserved). Architect taking bids due February 1st.

**Stores (4) and Apartments (6)**, Southwest Corner Fifteenth and Catherine streets. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Lander, Sixteenth and Christian streets, Philadelphia. Brick, 3 stories, 33x80 feet, remodeling of one dwelling, slag roof, pine floors, steam heat, electric light, tile and marble work, metal ceilings, steel work, metal bulks. Architect taking bids due February 1st.

**Somerset Sub-Station**, Trenton avenue and Somerset street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel, cut stone, 2 stories and basement, 104x83 feet, slag roof, cement floors, marble work, rolled steel sash, bond, water-



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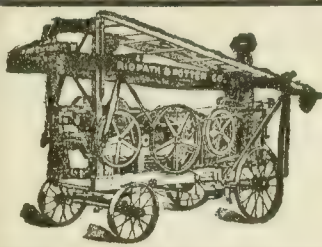
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proofing. Architect taking bids due Febru-  
ary 2nd.

**Residence and Garage**, Oak road, North of  
Midvale avenue, Philadelphia. Architect, pri-  
vate plans. Owner, Dr. Leroy Walker, 2258  
North Thirteenth street, Philadelphia. Stone  
and whitewash, 2½ stories, 42x30 feet, gar-  
age 22x22 feet, shingle roof, hardwood floors,  
vapor heat, electric light, tile work. Owner  
taking bids due February 1st.

**Garage**, 1214 to 1220 Filbert street, Phila-  
delphia. Architects (engineers), Carson &  
Carson, 22 South Fifteenth street, Philadel-  
phia. Owners, David and Max Markovitz,  
Morris Polin and Samuel Krekstein, care of  
engineers. Brick, reinforced concrete and  
steel, 4 stories and basement, 106x62 feet,  
slag roof, cement floors (elevators reserved),  
iron work, fire doors, rolled steel sash and  
skylights, steam heating, electric lighting. En-  
gineers taking bids due February 2nd.

**Residence (Castor) (alts. and add.)**, Holmes-  
burg, Philadelphia. Architects, Lachman &  
Murphy, Drexel Building, Philadelphia. Own-  
er, George T. Sale, Liberty Building, Phila-  
delphia. Hardware, tin roof, pine and oak  
floors, carpentry, mill work, plastering, elec-  
tric lighting, tile work (heating reserved).  
Architects taking bids due February 5th.

**Office Building**, Southeast Corner Thirteenth  
and Filbert streets, Philadelphia. Architects,  
Magaziner & Eberhard, 603 Chestnut street,  
Philadelphia. Owner, Joseph Caplan, care of  
architects. Limestone, bluestone, granite,  
brick, cut stone, steel and reinforced con-  
crete, 12 stories and basement, 72x106 feet,  
slag roof, cement and maple floors, metal lath,  
tile and marble work, elevator, cement and  
maple floors, safety treads, rolled steel sash  
and skylights, kalamein doors, bond, water-  
proofing, terra cotta, iron stairs, ornamental  
iron work. Architects taking bids due Feb-  
ruary 5th.

**Store and Dwellings (4)**, Rittenhouse and  
Baynton streets, Philadelphia. Architect, Ja-  
cob Naschold, 5224 North Second street, Phila-  
delphia. Owner, Salvator Borneo, care of  
architect. Brick, 3 stories, (1) 32x37 feet,  
(3) 16x35 feet, slag roof, pine and mineralite  
floors, hot water heating, electric lighting,  
plumbing, tile work, plate glass, flush bulks.  
Architect and owner taking bids due Feb-  
ruary 1st.

**School (add.) (Warehouse and Printing  
Shop)**, New street, between Front and Sec-  
ond streets, Philadelphia. Architect, private  
plans. Owners, Board of Education, Nine-  
teenth above Chestnut street, Philadelphia.  
Reinforced concrete, brick, granite and steel,  
2 stories, 120x55 feet, composition roof, ce-  
ment and maple floors, safety treads, water-  
proofing, terra cotta, iron work, bond, metal

lath, tile work. Owners taking bids due Feb-  
ruary 8th.

**Schools (19)**, various locations, Philadel-  
phia. Architect, private plans. Owners,  
Board of Education, Nineteenth above Chest-  
nut street, Philadelphia. Electric work. Own-  
ers taking bids due February 8th.

**School**, Large, Wakeling and Howarth and  
Horrook streets, Philadelphia. Architect, pri-  
vate plans. Owners, Board of Education,  
Nineteenth above Chestnut street, Philadel-  
phia. Reinforced concrete, brick, granite, cut  
stone and steel, 3 stories and basement,  
170x146 feet, composition and tile roof, ce-  
ment and maple floors, safety treads, water-  
proofing, terra cotta, iron work and stairs,  
bond, hollow metal doors, rolled steel sky-  
lights, sheet metal sash, tile and marble  
work, metal lath (heating, plumbing and  
lighting separate bids). Owners taking bids  
due February 8th.

**School**, Knorr, Cottage and Gillespie  
streets, Philadelphia. Architect, private  
plans. Owners, Board of Education, Nine-  
teenth above Chestnut streets, Philadelphia.  
Reinforced concrete, brick, granite and steel,  
3 stories, 171x148 feet, composition and tile  
roof, cement, pine and maple floors, safety  
treads, metal weather strips, waterproofing,  
terra cotta, iron stairs and work, bond, hol-  
low metal doors and sash, rolled steel sky-  
lights, tile and marble work, metal lath  
(heating, lighting, plumbing separate bids).  
Owners taking bids due February 8th.

**Building (alts. and add.)**, 1512 Pine street,  
Philadelphia. Architect, H. Childs Hodgins,  
130 South Fifteenth street, Philadelphia.  
Owner, S. J. Gittelsohn, 1017 Spruce street,  
Philadelphia. Brick and steel, 2 stories.  
36x17 feet, slag roof, oak, composition and  
cement floors, hot water heating, electric  
lighting, tile work, hollow metal skylights.  
Architect taking bids.

**Store (alts.)**, Fifth and South streets, Phila-  
delphia. Architect, Richard H. Smythe,  
Brooklyn, N. Y. Owners, R. W. Realty Co.,  
Inc., 121 Duane street, New York City. Plas-  
tering, carpentry, mill work, hardware, metal  
work, painting, glazing, heating repairs. Bids  
due February 1st.

**Building (alts. and add.)**, 2818 North Broad  
street, Philadelphia. Architects, Furness  
Evans & Co., 315 South Fifteenth street, Phila-  
delphia. Owner, I. S. Shalkop, 3508 Haver-  
ford avenue, Philadelphia. Brick work, cut  
stone, steel work, cement work, plastering,  
plumbing (heating and electric lighting re-  
pairs), metal lath, hollow metal skylights,  
iron work, waterproofing. Architects taking  
bids.

**Garage**, South side Wyoming avenue, West  
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plans. Owner, Edward Holland, 5005 Sansom street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric light, steel sash. Owner will build.

**Residences (2)**, 1037-39 Hellerman street, Philadelphia, \$9,000. Architect, private plans. Owners, Rose Building Co., 2616 Bridge street, Philadelphia. Frame, 2 stories, 18x40 feet, shingle roof, electric lighting. Owner will build.

**Residences (2) and Garage**, South side Wakeling street, West of Horrocks street, \$14,800. Architect, private plans. Owner, Albert Brooks, Richmond and Erie avenue, Philadelphia. Brick, 2 and 3 stories, 16x68 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Owner will build.

**Factory (add.)**, North side Juniata street, West of Wissahickon avenue. Architect, private plans. Owners, The American Pulley Co., 4200 Wissahickon avenue. Brick, 2 stories, 20x50 feet, slag roof, electric lighting. Owners will build.

**Residences (3)**, East side Seventeenth street, South of Lindley avenue, \$5,000. Architect, private plans. Owner, Raymond R. Rafferty, 4128 North Broad street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x11 feet, slag roof, hot water heat, electric light. Owner will build.

**Residence**, East side Jackson street, North of Brill street, \$4,500. Architect, private plans. Owner, D. Corrochi, 1948 Bridge street, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 41 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residence**, 8021 Cresheim Valley road, Philadelphia, \$5,000. Architect, private plans.

Owners, Lounizon Brothers, 17 East Abington avenue, Philadelphia. Brick, 2 stories, 30x28 feet, 16x15 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Garage**, South side Locust avenue, West of Boyer street, Philadelphia, \$4,250. Architect, private plans. Owner, Elvin W. Schrope, 630 Locust avenue, Philadelphia. Brick, 1 story, 32x117 feet, 24x16 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (6)**, West side Charles street, South of Wakeling, \$6,000. Architect, private plans. Owners, W. N. France & Son, Inc., 1511 Oxford street, Philadelphia. Brick, 2 stories, 18x29 feet, slag roof, electric lighting, oak and pine floors. Owner will build.

**Garage**, South side Locust avenue, West of Boyer street, \$3,750. Architect, private plans. Owner, Elvin W. Schrope, 630 Locust avenue, Philadelphia. Brick, 1 story, 31x117 feet, slag roof, cement floors. Owner will build.

**Building alts.**, 407 Catherine street, Philadelphia, \$2,000. Architect, private plans. Owner, Abe Gecker, 517 Moore street, Philadelphia. General alterations. Owner will build.

**Residences (2)**, Southeast Corner George and Diamond streets, and Southwest Corner Fifty-third and Diamond streets, \$11,000 each; **Residences (13)**, South side of Diamond street, West of Fifty-third street, \$7,500 each. Architect, private plans. Owner, H. Martin Maloney, Fifty-fourth and Diamond streets, Philadelphia. Brick, 2 stories, 20x34 feet, oak and pine floors, slag roof, hot water heating, electric lighting, tile work. Owner will build.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Building**, Hunting Park avenue and McMichael street, Philadelphia. Architect, private plans. Owners, Tasty Baking Co., 2801 Hunting Park avenue, Philadelphia. Brick, reinforced concrete and steel, 5 stories and basement, 100x40 feet, slag roof, cement floors, steam heating, electric lighting, floor hardener, iron work. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Building**, Southeast Corner Frankford avenue and Paul street, Philadelphia. Architect, private plans. Owner, Isador Milgram, Frankford Trust Co., Lessee, 4344 Frankford avenue, Philadelphia. Brick, cut stone, limestone, 2 stories and basement, 52x42x65 feet, slag roof, yellow pine floors, steam heat, electric light, marble work, ornamental iron work.

Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Residence and Garage**, South side Wakeling, West of Horrocks, \$21,000. Architect, private plans. Owner, Charles McCough, 5102 Darrah street, Philadelphia. Stone, steel, brick, cut stone, 3 stories, 28x41 feet, garage, 1 story, 20x20 feet, slate roof, hot water heat, electric light, oak, pine and cement floors, tile work, iron work, metal lath. Contract awarded to E. E. Hollenback, 1804 Brandywine street.



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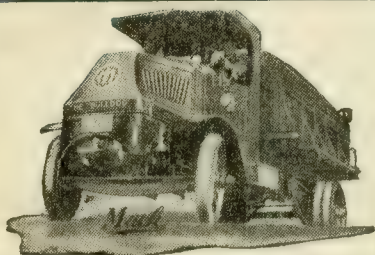
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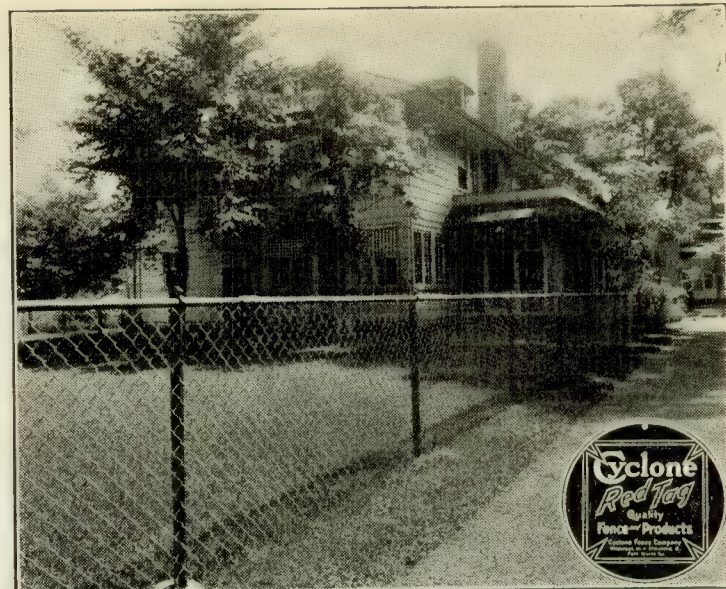
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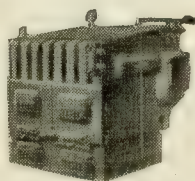
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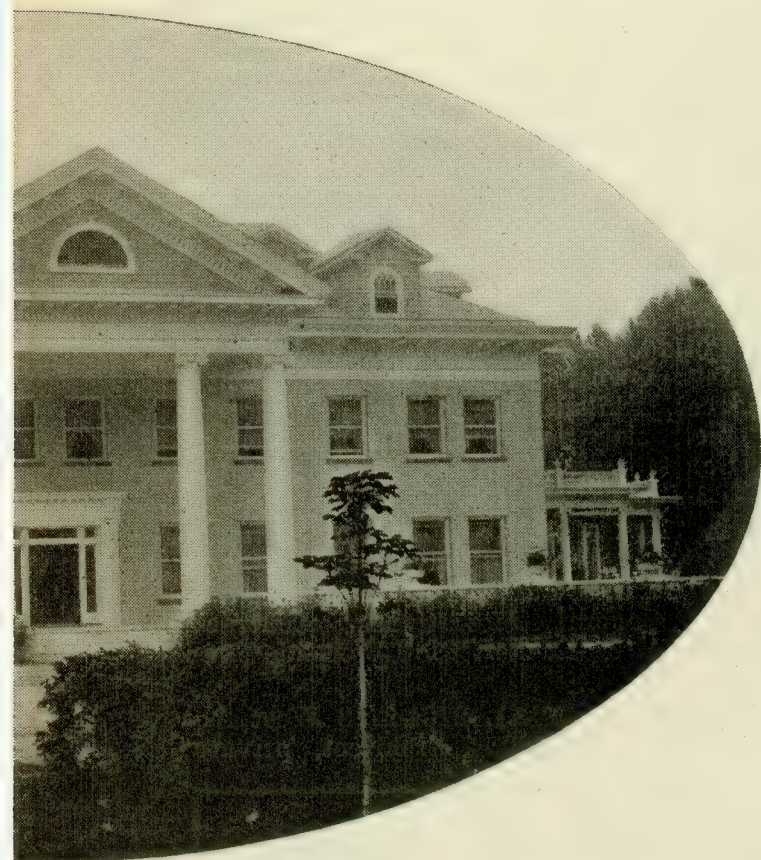
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**Boiler House**, West side Master street, South of Westmoreland, \$50,000. Architect, private plans. Owners, Art Loom Rug Co., Front and Allegheny avenue, Philadelphia. Brick and steel, 1 story, 70x64 feet, slag roof, steel sash, cement work, electric work. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Parochial School**, Fifth and Cayuga streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Henry's Roman Catholic Church, care of Rev. Henry E. Koenes, on premises. General interior alterations for classrooms. Contract awarded to Fred. V. Schubert, 4011 North Marshall street.

**Service Station**, West side Torresdale avenue, South of Cottman, \$20,000. Architect, private plans. Owners, D. J. Potter & Co., Northwest Corner Dittman and Disston streets. Brick and steel, 2 stories, 60x34 feet, and 1 story, 60x128 feet, slag roof, cement floors, electric lighting. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

**Shop**, 1606 Carlisle street, Philadelphia, \$4,000. Architect, private plans. Owner, N. Woller, 1711 North Fifteenth street, Philadelphia. Brick, 1 story, 16x56 feet, slag roof, cement floors. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

**Garage (add.)**, Southeast Corner Seminole avenue and Graver's lane, \$3,000. Architect, private plans. Owner, Roland D. Pollock,

8319 Seminole avenue, Philadelphia. Brick, 1 story add., 13x24 feet, slag roof, cement floors. Contract awarded to James Williams, Ambler, Pa.

**Apartment (alts.)**, 3935 Walnut street, Philadelphia, \$10,000. Architect, private plans. Owner, J. C. Crawford, 507 Land Title Building, Philadelphia. General alterations. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

**Residence**, North side Cheltenham avenue, East of Lawnton avenue, \$6,000. Architect, private plans. Owner, James McGee, Sixty-fifth avenue and Eleventh street, Philadelphia. Stone, 3 stories, 25x38 feet, slate roof, hot water heat, electric light, oak and pine floors, tile work. Contract awarded to Gilbert S. Smith, Sixty-ninth avenue and Tenth street.

**Bank (alts. and add.)**, Southwest Corner Fifty-second and Stiles streets, \$6,000. Architect, private plans. Owners, Fifty-second Street State Bank, on premises. Brick, 2 stories, 17x18 feet, general alterations. Contract awarded to Samuel A. Rogers, 5312 Thompson street.

**Garages**, 2943-45 North Marshall street, Philadelphia, \$4,500. Architect, private plans. Owner, Edward Berlinger, Fenton and Huntingdon streets, Philadelphia. Brick, 1 story, 25x18 feet, 18x75 feet, slag roof, cement floors. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

**Storage Building**, 2417 North American street, \$6,000. Architect, private plans. Owners, Rex Storage Co., 2415 American street,

Philadelphia. Iron, 1 story, 48x113 feet, corrugated iron roof, cement floors. Contract awarded to Harry Brocklehurst, 512 West Norris street.

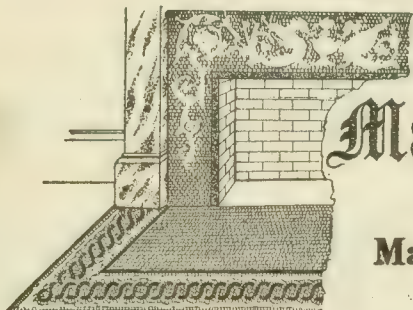
**Store (alts.)**, 107-09 South Thirteenth street, Philadelphia, \$6,000. Architect, private plans. Owner, Joseph Van Horn, on premises. Carpentry, mill work, store fixtures, general alterations. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

**Sub-Station**, Northeast Corner Comly and Milnor streets, \$4,500. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, Quaker City Rubber Co., 624 Market street, Philadelphia. Brick, 1 story, 20x51 feet, slag roof, cement floors, steel sash. Contract awarded to Moore Const. Co., Darby, Delaware County, Pa.

**Residence (alts. and add.)**, 1944 Lombard street, Philadelphia, \$3,000. Architect, private plans. Owner, E. J. Loebler, 1946 Lombard street, Philadelphia. Brick, 1 story, 10x10 feet, slag roof, pine floors, electric light. Contract awarded to George W. Wagoner, 2042 Rittenhouse street.

**Rooming House (alts.)**, 2012 North Broad street, \$3,000. Architect, private plans. Owner, Sophia Kelman, Land Title Building, Philadelphia. General alterations. Contract awarded to A. P. Lucker, 5136 Parkside avenue.

**Residences (2) (alts.)**, 2704-2718 West Allegheny avenue, \$2,000. Architect, private



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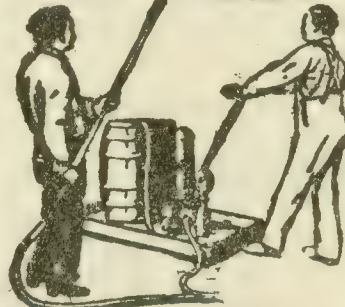
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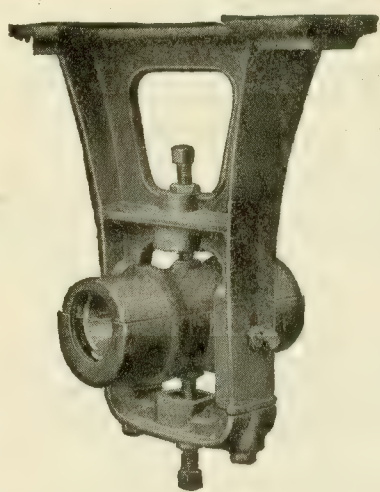
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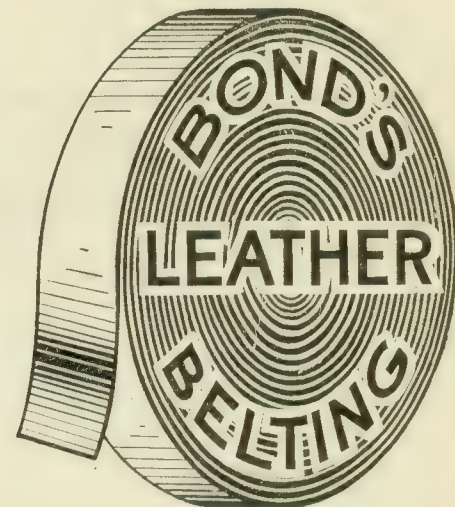




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plans. Owner, Morris Metzman, 1131 Poplar street, Philadelphia. Carpentry, mill work, plastering, painting, glazing. Contract awarded to Jules Landau, 1806 North Seventh street, Philadelphia.

**Club House (alts.)**, 1901 Spring Garden streets, \$3,000. Architect, private plans. Owners, Society of the Sons of St. George, Nineteenth and Arch streets. General alterations. Contract awarded to Abel Bottman & Sons, Narberth, Pa.

**Store (alts.)**, 1122 Chestnut street, Philadelphia, \$2,000. Architect, private plans. Owners, B. F. Dewees Co., on premises. General alterations. Contract awarded to Basch Company, Ruan and Tackawanna streets.

**Bank and Office Building**, Southeast Corner Fifteenth and Chestnut streets, Philadelphia, \$2,500,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Fifteenth and Chestnut Streets Realty Co., Maurice Biddle Saul, president, Land Title Building, Philadelphia. Brick, steel, concrete, cut stone, granite and terra cotta, 24 stories, 72x230 feet, steam heating, electric lighting, tile and marble work, metal lath, elevators, cement and hardwood floors, ornamental iron work, roof ventilators. Contract awarded to Thompson Starrett Co., 49 Wall street, New York City.

**Children's Department**, Byberry, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Works, Bureau of Health, Philadelphia. Contracts awarded to C. H. Evans Company, 2315 Walnut Street, Philadelphia, \$294,576. Electric, Baird Osterhout Co., 2114 Sansom street, \$15,265. Plumbing, Bullman Brothers, Fifth and Cumberland streets, \$31,366. Heating, Mechanical Equipment Co., Drexel Building, \$74,344.

**Loft Building**, Front street below Allen street, Philadelphia. Architect, Fred. N. Greisler, 1035 Walnut street, Philadelphia. Owners, Simon Sionsky Co., 1033 North Front street, Philadelphia. Brick, 5 stories, 54x160 feet, slag roof, plank and maple floors, electric elevator, roof ventilators, concrete piles, fire doors, hollow metal skylights, rolled steel sash, steam heating, electric lighting. Contract awarded to Robbins Cont. Co., 1137 North Front street.

**Residence (add.) and Garage**, West side Navahoe street, North of Willow Grove avenue, Philadelphia, \$5,060. Architect, private plans. Owner, W. G. Morse, on premises. Brick, second story add., 18x17 feet, slag roof, hot water heat, electric light, oak, pine and cement floors. Contract awarded to Melvin H. Grebe, 5 East Highland avenue.

**Store and Storage (add. and alts.)**, Southeast Corner Sixtieth and Thompson streets, \$4,000. Architect, private plans. Owner, H.

Croll, on premises. Brick, 1 story, 30x22 feet, 6x45 feet, slag roof, pine floors. Contract awarded to A. Nardy & Son, 761 South Thirtieth street.

**Factory (alts.)**, 1209-11 North Hancock street, Philadelphia, \$4,000. Architect, private plans. Owner, Samuel Sandler, on premises. General alterations. Contract awarded

to F. A. Stoutenbrough, 1509 Champlost street.

**Garage (add.)**, 3723 York road, Philadelphia, \$2,450. Architect, private plans. Owner, Carl Puzennier, on premises. Brick, 1 story, 15½x99 feet, slag roof, cement floors. Contract awarded to W. F. Behr, 3705 York road, Philadelphia.

## PENNSYLVANIA

## Construction News

**Hotel**, Broad and Church streets, Hazleton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building. Owner, George R. Markle, 227 East Broad street, Hazleton, Pa. Brick and stone, 9 and 10 stories, 95x150 feet, slag roof, elevators, steam heating, electric lighting, tile and marble work. Plans in progress.

**Department Store (add.)**, Easton, Pa. Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa. Owner, William Laubach, 320 Northampton street, Easton, Pa. Brick and steel, 7 stories, 26x115 feet, slag roof, maple floors, heating extension, electric light, metal lath, rolled steel sash, metal skylights, ornamental iron work. Plans in progress.

**Residence and Garage**, Easton, Pa. Architect, A. D. Chidsey, Jr., 341½ Northampton street, Easton, Pa. Owner, George Hellick,

215 Ferry street, Easton, Pa. Stone, 2½ stories, 36x38 feet, slate roof, hardwood and concrete floors, vacuum heat, electric light, metal lath, tile work. Plans in progress.

**Bank**, Main street, Nanticoke, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, First National Bank, Charles Shea, president, Nanticoke. Plans in progress.

**Lodge Rooms, Offices and Store Room**, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John B. Young, Main street, Spring City, Pa. Stone and brick, 3 stories and basement, 28x60 feet, tin roof, wood, tile and concrete floors (heating, plumbing and lighting reserved), metal lath, cement plaster, fire tower, elevator (1), metal cornices, bond. Plans in progress.

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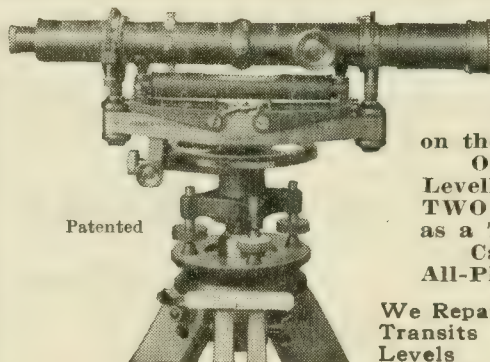
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**Dairy Barn**, Wilson's Corner, Chester County, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, James Pistrowicz, Phoenixville, R. D. 4, Chester County, Pa. Stone and frame, 2 stories, 50x80 feet, asbestos roof, concrete and wood floors, demolition of old buildings, electric lighting, bond. Plans being prepared.

**Shop (alts.) to Store**, 528 Linder street, Allentown, Pa. Architect, A. J. Bibighans, 530 Hamilton street, Allentown. Owner, Mr. Richards, on premises. General alterations, plate glass, copper work, steel front. Plans in progress.

**Residence**, College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, Frank Hunsicker, Allentown, Pa. Architect selected. Too early for details.

**Convent**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owners, Sts. Simon's and Jude's Church, care of Rev. E. M. Stapleton, Bethlehem, Pa. Brick, 3 stories, 28x60 feet, metal tile roof, hardwood floors, vapor heat, electric light. Plans in progress.

**Twin Residence**, Sharon Hill, Pa. Architect, Fred. N. Greisler, 1035 Walnut street, Philadelphia. Owner, Richard Higson, Colwyn, Pa. Stone and stucco, 2½ stories, 19x36 feet each, garage, 1 story, 20x22 feet, slate roof, hardwood and cement floors, hot water heating, electric light, tile work. Architect is ready for general bids.

**High School**, Green Tree, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of Wilkistown Township, Chester County, Pa. Brick and stone, 2 stories and basement, 35x80 feet. Plans completed. Architect ready for bids.

**High School**, Brommell, Delaware County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Marple Township School District, Delaware County, Pa. Brick and stone, 2 stories and basement, 62x74 feet. Plans completed. Architect is ready for bids.

**Residences (2)**, Easton, Pa., \$7,000. Architect, private plans. Owner, William C. Schaefer, 144 Wilkestone street, Easton, Pa. Brick, 2½ stories, 17x101 feet, slate roof, pine floors, hot air heat, electric light. Owner will build.

**Home**, Middletown, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Pennsylvania Home, I. O. O. F., Middletown, Pa. Reinforced concrete, cut stone, castone, brick and steel, 3 stories

and basement, 299x38 feet, (2) wings, 154x33 feet, slag and slate roof, cement and composition floors, hollow tile, roof ventilators, iron work and iron stairs, bond, hollow metal doors, rolled steel sash, tile, marble and terrazzo work, metal lath. Owners, Seventeenth and Tioga streets, Philadelphia, taking bids due February 6th.

**High School**, Bridgeport, Pa. Architect, H. Courcy Richards, 618 Chehstnut street, Philadelphia. Owners, Board of Education, School District, Bridgeport, Pa. Brick, cut stone, steel and reinforced concrete, 2 stories, 140x64 feet, composition roof, concrete roof, roof ventilators, metal ceilings, dampproofing, waterproofing, iron work, bond, rolled steel skylights, metal lath (heating, lighting and plumbing reserved). Architect taking bids due February 5th.

**High School**, West avenue, between Highland avenue and Walnut avenue, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board of Jenkintown, Pa. Brick, hollow tile and cut stone, 2½ stories, 139x143 feet, slate roof, pine, maple and composition floors, metal lath, bond, iron work (heating, electric lighting and plumbing separate bids). Architects and owners taking bids due February 3rd at 4 P. M. or 7.30 P. M.

**Masonic Temple**, Lock Haven, Pa. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owners, Masonic Temple Association, John W. Dickey, chairman, Lock Haven, Pa. Reinforced concrete, brick, limestone, cut stone, steel, 3 stories and basement, 147x59 feet, slag roof, concrete and yellow pine floors (heating, plumbing, electric work, elevators and waterproofing reserved), metal lath, rolled steel skylights, bond, dampproofing, ornamental iron work. Architects taking bids due February 3rd at 10 A. M.

**Residences (2)**, Nos. 48 and 49, Wynnewood, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 44x28 feet and 35x36 feet, shingle roof, oak and pine floors, tile work, iron work. Architects taking bids due February 2nd.

**Residence and Garage**, Academy Manor, Harrisburg, Pa. Architect, not yet selected. Owner, S. Wirt Mosser, 437 Strawberry street, Harrisburg. Brick, 2½ stories. Work contemplated.

**Residence and Garage**, Academy Manor, Harrisburg, Pa. Architect, not yet selected.

Owner, George Ross Hull, 54 Union Trust Building, Harrisburg. Probably stone, 2½ stories. Work contemplated.

**Residence and Garage**, Academy Manor, Harrisburg, Pa. Architect, not yet selected. Owner, Ross R. Rhoads, Cowden and Forster streets, Harrisburg. Probably brick, 2½ stories. Too early for details.

**Residence and Garage**, Academy Manor, Pa. Architect, not yet selected. Owner, Richard P. Drew, 1601 North Second street, Harrisburg. Brick, 2½ stories. Work contemplated.

**Residence**, Academy Manor, Harrisburg, Pa. Architect, not yet selected. Owner, Charles P. Boone, 1931 North Second street, Harrisburg. Brick, 2½ stories. Work contemplated.

**Residence and Garage**, Academy Manor, Harrisburg, Pa. Architect, not yet selected. Owners, Clarence S. Shenk, 313 Market street, Harrisburg, Pa. Brick, 2½ stories. Work contemplated.

**Residence and Garage**, Academy Manor, Harrisburg, Pa. Architect, not yet selected. Owner, D. E. Lucas, 303 Lewis street, Harrisburg, Pa. Brick, 2½ stories. Work contemplated.

**Residence and Garage**, Academy Manor, Harrisburg, Pa. Architect, not yet selected. Owner, Fred. M. Cleckner, 204 Locust street, Harrisburg, Pa. Brick, 2½ stories. Work contemplated.

## Pennsylvania Contracts Awarded

**Foundry and Machine Shop**, Reading, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Reading Hardware Co., Reading, Pa. Brick, reinforced concrete and steel, 7 stories and basement, 259x80 feet, slag roof, wood block, concrete and maple floors, hollow tile, safety treads, iron work, bond, tin-clad and kalamein doors, rolled steel sash, metal lath. Contract awarded to J. W. Ferguson Co., Pater-son, N. J.

**Telephone Exchange (alts. and add.)**, Lancaster, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, third story add., 19x135 feet, slag roof, cement floors, steam heating, electric lighting, tile work. Contract awarded to Franklin M. Harris & Co., 1520 Parrish street, Philadelphia.

**Farm House (alts. and add.)**, Second Street Pike, near Susquehanna avenue, Montgomery County, Pa. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, A. J. Schroeder, Perry Building, Philadelphia. Cement work, sheet metal work, carpentry,

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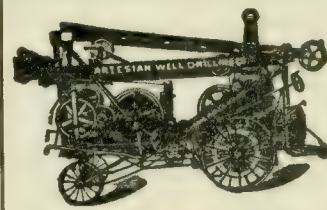
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mill work, plastering, painting, glazing, hot water heating, electric lighting, hardware, composition floors, tile work, iron work. Contract awarded to Daniel Johnson, Toms River, N. J., and care of owner, Perry Building, Philadelphia.

**Residences (2), Narberth, Pa.** Architect, John Purring, Narberth, Pa. Owner, Carl Greyer, Narberth, Pa. Hollow tile and stucco, 2½ stories, 34x38 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Merion Const. Co., 2315 Walnut street, Philadelphia.

**Stores and Apartments (3), Bryn Mawr, Pa.** Architect, John Charles Norton, Ardmore, Pa. Owners, Merion Const. Co., 2315 Walnut street, Philadelphia. Brick and steel, 2 stories and basement, 68x54 feet, slag roof, oak and maple floors, hot water heating, electric lighting, metal lath, tile work, metal ceilings, iron work. Contract awarded to Merion Const. Co., 2315 Walnut street, Philadelphia.

**Store and Apartment, Southeast Corner Centre Square, Easton, Pa., \$15,000.** Architect, private plans. Owner, Jacob Kurlansek, Easton, Pa. Brick, 4 and 2 stories, 119x29 feet, slag and slate roof, hardwood floors, partitions, general alterations. Contract awarded to F. J. Lerch, Pine and West streets, Easton.

**Garage and Show Room (alts.), 233 North Third street, Easton, Pa.** Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owner, Claude S. Sandt, 223 North Third street, Easton, Pa. New front, plate glass, cast stone, tile and marble work. Contract awarded to Bechtel & Bechtel, N. N. Bank Building, Easton, Pa.

**Residence, Wyncote, Pa.** Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owner, John S. Bush, Wyncote, Pa. Stone, 2½ stories, 100x42 feet, slate roof, oak and pine floors, iron work (heating, electric work and tile work reserved). Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

## New Jersey Construction News

**Lodge Building, Pennsgrove, N. J., \$17,000.** Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Pennsgrove Lodge, B. P. O. E., R. L. Goldman, care of General Wrecking & Sales Co., Pennsgrove, N. J. Brick, 2 stories, 40x70 feet, slag roof. Plans in progress.

**Stores (2), Apartments (4) (alts. and add.), 228-30 East State street, Trenton, N. J.** Architect, William Klemann, First National Bank Building, Trenton. Owner, N. Saaz, 724 South Broad street, Trenton, N. J. Brick, 3 stories, 40x40 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile work, hollow metal skylights, metal ceilings, plate glass, copper work, hollow tile. Plans in progress.

**Residence, River Road, Trenton, N. J.** Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Lewis B. Traver, 295 Hamilton street, Trenton, N. J. Frame, 2½ stories, 24x45 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Plans in progress.

**Residence, Ventnor, N. J.** Architects, W. B. Riebenack & Co., Guarantee Trust Building, Atlantic City, N. J. Owner, G. J. Muelerschoen, 1709 Spruce street, Philadelphia. Brick, 2 stories and basement, 28x57 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence (alts. and add.), Riverton, N. J.**

Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Benjamin S. Meehling, Riverton, N. J. General renovations. Plans in progress.

**Residence and Garage, Ventnor, N. J.** Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, Miss E. Kile, Guarantee Trust Building, Atlantic City. Frame, 2 stories, 24x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect will build.

**Store (add.), Broad street, Trenton, N. J.** Architect, William Kleman, First National Bank Building, Trenton. Owners, Philadelphia Bargain Store, 25 South Broad street, Trenton, N. J. Brick, steel, 1 story, 80x100 feet, slag roof, pine floors, electric light, general interior alterations. Architect ready for bids.

**Y. W. C. A. Building, Camden, N. J.** Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Y. W. C. A., Mrs. E. G. Bleakly, secretary, Camden, N. J. Reinforced concrete, brick, cut stone and steel, 4 stories and basement, 103x68 feet, promenade tile and slag roof, maple, cement and linoleum floors, elevators, metal ceilings, waterproofing and dampproofing, iron work and stairs, bond, kalamein and hollow metal doors and skylights, tile, marble and terrazzo work, metal lath, steam heat, electric light. Bids due February 7th.

**Junior High School and Gymnasium, Collingswood, N. J.** Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, H. Milton Restricks, clerk. Brick, cut stone and steel, 2 stories, ground floor and basement, 105x85 feet, and 1 story, 129x46 feet, slag and slate roof, oak, pine and cement and maple floors, metal lath, waterproofing, iron work and stairs, bond, kalamein and hollow metal doors, tile and marble work, steam heating, electric lighting. Lowest bidders: Wills Bill Co., 1706 Sansom street, Philadelphia, \$308,489; gymnasium, \$51,951. William Linker Co., 735 Cherry street, Philadelphia, \$318,400; gymnasium, \$58,900. Heating, A. McClintock & Son, 1937 Callowhill street, Philadelphia, \$34,520. Plumbing, William Newell & Son, 1707 Sansom street, Philadelphia, \$17,889. Electric, J. F. Buchanan Co., 1719 Chestnut Street, Philadelphia, \$7,083.

**School, Browning Road, near Haddon avenue, Collingswood, N. J.** Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Board of Education, H. Milton Restricks, clerk, Collingswood, N. J. Brick and steel, 1 story, 88x62 feet, slate and

slag roof, cement and pine floors, iron work, metal lath, tile work. Lowest bidders: William Linker Co., 735 Cherry street, Philadelphia, \$34,870, add \$400. Wills Bill Co., 1706 Sansom street, Philadelphia, \$35,942, add \$440. Heating, A. McClintock & Sons, 1937 Ridge avenue, Philadelphia, \$4,400. Plumbing, William Newell & Son, 1707 Sansom street, Philadelphia, \$2,150. Electric, J. F. Buchanan Co., 1715 Chestnut street, Philadelphia, \$437.

## New Jersey Contracts Awarded

**Apartments (2), Bartram and Ventnor avenues, Ventnor, N. J.** Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Max Grossman, Atlantic City, N. J. Brick, stone, steel, 3 stories, 34x50 feet, slag roof, hardwood floors, metal lath, hot water heat, electric light, tile and marble work, waterproofing and dampproofing, ornamental iron work. Contract awarded to Newton W. Knauer, 132 South New York avenue, Atlantic City, N. J.

**Apartment and Stores, Virginia avenue, above Atlantic avenue.** Architect, Donald Rosenstein, Humphrey Building, Atlantic City. Owner, David M. Saxe, care of architect. Brick, steel, 3 stories, 40x100 feet, slag and tile roof, hardwood floors, vapor heat, electric light, tile work, metal lath. Contract awarded to S. Dolinsky & Son, 2 North Vermont avenue.

**Residence, Ventnor, N. J.** Architect, D. A. Rosenstein, Humphrey Building, Atlantic City. Owner, A. Rosenstein, 21 North Oakland avenue, Atlantic City. Frame, 2 stories, 60x30 feet, slate roof, hardwood floors, tile work. Contract awarded to H. Scull, 8 North Cambridge avenue, Atlantic City.

**Apartment, 1902 Pacific avenue, Atlantic City, N. J.** Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Dr. Barbash, on premises. Brick, 3 stories, 30x133 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to P. G. Hannum, Georgie avenue and Thorofare, Atlantic City, N. J.

**Kiln Shed, Lalor street, Trenton, N. J.** Architect, William Kleman, First National Bank Building, Trenton. Owners, Equitable Plant, Trenton Potteries Co., Lalor and Hancock streets, Trenton. Brick, 1 story, 150x44 feet, slag roof, concrete floors, metal lath, rolled steel sash, electric light, fire doors. Con-

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tract awarded to S. W. Mather & Son, Trenton, N. J.

**Garage and Tenant House**, Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Benjamin S. Meehling, Riverton, N. J. General alterations, plumbing. Contract awarded to Louis F. Lowden, Riverton, N. J.

## Miscellaneous Construction News

**Residence**, Winston Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, S. Wilson Gray, Winston Salem, N. C. Hollow tile and stucco, 2½ stories, 27x46 feet, (2) wings, 16x27 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile work. Architect taking bids due February 14th.

**Residence and Garage**, Winston Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, C. A. Kent, Winston Salem, N. C. Brick and hollow tile, 2½ stories, 42x50 feet, slate roof, hardwood and cement floors, tile work, electric lighting. Contract awarded to Fogle Brothers, Winston Salem, N. C.

## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 22, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 15, 1923, for the installation complete of one full magnet electric freight elevator, for the United States Custom House and Post Office at Buffalo, N. Y. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 25, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 26, 1923, for the furnishing and installing of certain Kitchen Equipment in Infirmary-Group (4 buildings) at the United States Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtain a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 27, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 26, 1923, for alterations in the U. S. Veterans' Hospital, at the Bronx, New York. Drawings and specifications may be obtained from the Superintendent of Construction on the site, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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to the council. No phase of the inter-relations between the industry's branches and its contact with the public is outside the scope of the council's activities.

When the public is once brought to realize that an industry, which embraces in its membership 250 national associations, stands as a unit back of a guarantee of integrity, efficiency and public service, the public will deal with the various branches of this industry with as much confidence as it now deals with the banks or other businesses that are conducted with certain well-defined codes of ethics, even though those codes may never have been formulated into words or actually reduced to writing.

I may indicate certain other pressing problems which confront the council briefly as follows:

A national study of building codes, with a view to a standard practice, not through a country-wide legislative campaign, but through recommendations to those engaged in the construction industry.

A stabilization of the construction industry to mitigate the evils of seasonal employment and labor migration. It is possible, for instance, to bring about a change from the present rental situation in large cities, where a majority of the tenants who are seeking new locations move on the same day of the year, putting an immense burden upon the decorating and transfer workers, making their wages for the time being unduly high and their employment acutely seasonal, with a higher rental for the tenant. It would relieve this situation to arrange leases so that business houses and apartment houses would be vacated, for instance, at different times. The fixed moving date must also be taken into consideration in connection with house building. In awarding contracts owners must always take into consideration the renting season date. This often makes it necessary for contractors to work in double shifts, paying workmen bonuses to work during the night in order to complete such buildings in time for occupancy on the fixed moving date. These are but two illustrations of a large problem.

### What Construction Needs

A revision of existing freight rates on construction materials. This, I take it, is likely to come somewhat later than the other changes I have referred to, although I do not regard it on that account as of less importance.

A standard system of cost accounting. Water-power development.

Federal aid to states in highway construction.

A standard form of contracts.

I must not be understood as saying that the American Construction Council will

undertake the settlement of all these questions at the outset. On the contrary, it will devote its attention at the first only to those three or four problems which are of pressing importance and which are of such a nature that we can begin work on them straightway. That is to say, we must have a certain agreement of opinion on them, and in regard to some of them an educational effort must be made before differences now apparent can be ironed out.

The tendency of unrelated or loosely related branches of the industry to go ahead in ignorance of what other branches were doing, without a sense of co-operative responsibility and without due regard for the welfare of the public, must be overcome first if we are to win that public confidence which is essential to a full restoration of construction activity. The lack of mutual understanding and of respect for the owner's interests has been especially evident during the last few years, but I am confident that it can be cured. The industry fell back last year, but each of the 250 national associations involved is anxious to help meet the problems which extend beyond their special fields. Each is anxious to help the council eliminate duplication and waste. Of that I am confident. And of course a less wasteful, more efficient construction industry will mean lower building costs, lower rentals and, in the long run, a saving all along the line.

Although the council was organized last June, so as to have a machine ready for operation, it has only now begun functioning. It is too early to be more precise as to what is in immediate prospect, and too early to form a judgment as to what may be accomplished within, say, the next six months. I am certain that there is an immense usefulness ahead of the organization.

It is to be regretted that in certain quarters I have been described as occupying, in relation to the construction industry, the same autocratic power ascribed to Mr. Hayes in the motion-picture industry and to Judge Landis in organized baseball. Beneficent as the activities of those gentlemen may be, and as I do not doubt that they are, their authority, if it is czar-like, far exceeds my own. I have accepted the presidency of the American Construction Council, and in that capacity expect to exert no greater power than the president of any other business organization. I am persuaded that the construction industry does not require a czar and would be ill-disposed to tolerate tyranny. It needs only an opportunity for co-operation and the machinery of what I have ascribed as laboratory and hospital service. Now that these are provided, the industry and the public may well look hopefully into the face of the future.

*The Nation's Business.*



## HOW ARE THE BUILDING TRADES TRAINING APPRENTICES?

BY FRANK L. GLYNN

*Managing Director, New York Building Congress*

The fact that Europe has ceased to be the training school for the United States has brought about an acute situation in the building industry which is being reflected in all the basic industries contributing to a finished structure from the mining of the coal to the manufacture of hardware, tile, glass, electric fixtures, heating apparatus and the hundred and one necessities upon which a contractor is dependent.

This situation is due to the neglect on the part of the building industry to perpetuate itself by providing means for training skilled labor. It is particularly unfortunate that this neglect has only begun to be realized at a time when the demand for building is at its highest peak, with indications that this peak will be maintained for some time to come provided there is enough labor to do the building. Nor has the responsibility for the discouragement of building trade apprentices rested all with the unions. Employers in the past have put obstacles in the way of apprentices getting ahead. As long as young men were apprentices they got apprentice wages. The more they learned the more would be the wages and it was not to the interest of the employer to enlarge his payroll.

*The Wisconsin Law*—The only apprenticeship law now in force in the United States is in Wisconsin, which, for more than six years, has provided for apprenticeship contracts under the administration of the State Industrial Commission. These contracts embody the signatures of the parties to the contract, the date of beginning apprenticeship, the period of its duration, the processes or particulars of the trades to be taught and practiced, the wages to be paid and any other special arrangements customary in the trade.

The law requires, furthermore, that the apprentice shall attend an apprenticeship school for supplementary trade instruction five hours per week on the employer's time where such schools are established. It is required by law that such schools shall be established in all cities of more than 5,000 and may be established in smaller cities. These schools are supported entirely by public funds. They are designed to give academic trade instruction to the boy as well as to afford him trade experience in the shop.

Penalties are provided for violation of the contract which will involve a fine of from \$1 to \$100 for either party; in addition, the regular penalties follow for the violation of the orders of the Industrial

Commission which have the same standing as any other orders of that commission.

But despite the slowness of the building industry throughout the country to arise to the needs of this situation, it has now come to realize the necessity for far reaching and fundamental changes. The need of more apprentices in the building trades has become so obvious that, in many cities throughout the country there are being worked out definite programs for the training of mechanics. This plan is well under way in New York, Boston, Chicago, San Francisco, Philadelphia, Cleveland and Portland, Ore., and is in process of development in Detroit and St. Louis.

*The New York Plan*—In New York, to take a specific case, the administration of the plan is in the hands of the Apprenticeship Commission of the New York Building Congress and already it has been applied to two of the trades. The program is outlined as follows by Stephen F. Voorhees, president of the congress:

We have been giving our attention to the shortage of skilled labor in the building industry for the past year, and have worked out a plan in entire co-operation with all the elements of the industry including architects, realtors, engineers, contractors, materials manufacturers, bankers and organized labor. We have worked together until now we have a going commission in charge of providing opportunity for the young men of this locality to learn the skill required by mechanics in the building business. Formerly we were able to draw on Europe for our skilled workers. This has now stopped and we must make them. The basic idea is close co-ordination with the public school system both in offering an opportunity for graduate students to enter the industry and to provide the necessary technical instruction that goes with our development and is a vital part of it.

The plan in force in New York provides for a four-year apprenticeship during which practical daily work is supplemented by evening instruction under the supervision of the public school administration. The training comprises five and one half 8-hour working days per week continuously and four hours evening instruction weekly for a period of 38 to 40 weeks per year. The New York City Board of Education has made a specific appropriation of \$20,000 for this work during the fiscal year 1922-1923. The Apprenticeship Commission places the apprentices through co-operation with the placement department of the public schools and with the employers, and exercises a continuing supervision in order to insure that the boy keeps up with his studies and that the employer gives

him the graded work necessary for his training.

*How Agreements Are Made*—The apprenticeship agreements are negotiated by conferences between the commission and joint trade committees composed of representatives of the trades unions and the employers. The commission itself consists of five representatives of the building trades union, five employers, and three neutrals who are interested in building construction but who are non-partisan as between the unions and the employers. In all the conferences with the various trades, this commission represents the congress, but each of the trades has its own joint trade committee. When satisfactory standards of apprenticeship have been drawn up, they are ratified by the joint trade committee and incorporated in the trade agreements.

The ratio of apprentices in each trade is determined as a result of an exhaustive study of seasonal employees in the building industry in the metropolitan district, in the course of which 93,000 cases were studied for each year of a ten-year period. This is a matter of the utmost importance, for an essential feature of the apprenticeship plan is continuity of employment, which could not be realized if the number of apprentices were excessive. This difficulty is accentuated in the building trades because of its seasonal nature. Although it is planned to allow four years in which to bring the plan into full operation, the ratios in each case have been based upon 50 per cent of the lowest rate of employment, thereby allowing for a falling out of about half of those that start.

*A Specific Case*—As an example of how this plan works out in a specific case, the apprentice ratio for the painting and decorating trades for the first year has been placed at 140 apprentices to a total of 8,000 journeymen. The apprentices must be between 16 and 21 years of age and are required to put in a probationary period embodying the first two weeks of employment. Advanced credit is allowed to apprentices for previous trade experience or for work in an approved school subject to rating by the joint apprenticeship committee of the trade.

The wages of an apprentice are for his first year 33 1/3 per cent of the beginning journeymen's wage, for the second year 44 4/9 per cent., for the third year 55 5/9 per cent. for the fourth year 72 2/9 per cent. For the time spent in the school the employer allows the apprentice one-half the regular hourly wage rate. Apprentices who do not keep up their school work are subject to discharge by their employers and to exclusion from membership in the unions.

The subjects taught in the schools include related mathematics, trade sketching and drawing, shop practice, related



science and general information. In his work, the apprentice is taught the processes and the care and use of the tools used in the painting and decorating trade.

*The Industry Supports the Plan*—Both employers and trades unions are loyally supporting this plan, as they have been brought face to face with the necessity for bringing young men into the trade and for giving them a thorough training in order to maintain the high degree of skill established by the industry, which heretofore has depended more or less upon skilled workers coming from European countries and has neglected the training of the younger workers.

In the last few years intensive training, vestibule schools, etc., have been turning out specialized workers who are able to do some particular jobs, but these workers do not know the relation of their work to the finished product. Experience has proved that these so-called quick methods of training workers have failed to produce trained mechanics.

A trained mechanic is a man who has had practice, experience and instruction in the various processes of the trade. He knows the various processes of the trade the relation of one process to another and to the finished product. He can perform his work with an economy of material, a high degree of accuracy and in a minimum period of time. These factors of experience are accomplished by the co-ordination of the hand, the eye and the brain, and the proper functioning of these factors is only brought about by well directed apprentice training.

Employers are in favor of apprentice training as they know a trained mechanic is an asset to the industry. He earns the wages he receives, he goes about his work in a business-like way without the necessity of a highly paid foreman telling him every few minutes what to do and how to do it. He can stand on his own feet. Organized labor is in favor of a well-directed apprenticeship plan as well-trained workers can maintain wages commensurate with the quality and quantity of work performed. Such workers take a pride in their work and raise the standard of their trade to a higher plane whereby the craft has the respect of the community. The public favors well-trained workers because it knows that when work is performed by trained journeymen, it receives full value for money expended.

This is essentially the apprentice problem in one of the great building trades. As the workers go up the ladder a round a year and leave the ladder altogether after the thirtieth round, new men should be mounting behind them. But at the present rate of apprenticeship replacement those lower rounds are soon going to be empty, and before very many years have passed only a few of the upper

rounds will be occupied.—*Engineering-News Record*.

#### FIFTEEN MILLION PEOPLE LIVE IN ZONED CITIES

**M**ORE than 15,000,000 people live in zoned cities, towns and villages, according to information made public by the Division of Building and Housing of the Department of Commerce. Computations show that the homes of 27% of the total urban population of the country are located in zoned municipalities, and it follows that most of these homes are protected from intrusion of garages, stores, warehouses or manufacturing plants.

Zoning regulations provide, by a neighborly kind of agreement, that a city or town shall be divided into districts in which the uses for which structures may be built, their maximum height, and the area of the lot which they may cover, are established. In line with the zoning plan, certain districts are set aside for residences, for apartment houses, for office buildings, and for manufacturing. Ample provision is made for normal growth of business and industrial districts, but the builder of a garage or factory is not allowed to erect it within a residential neighborhood regardless of the annoyance and money losses inflicted on surrounding home owners.

The Department's investigation shows that in 1922 zoning spread especially rapidly in smaller places. Fourteen towns with five to ten thousand inhabitants were zoned during the year, bringing the total zoned towns in this class to twenty-three. Twelve places with 5,000 inhabitants or less were added to the list in 1922, bringing the total in that class to seventeen. The percentage of large cities which have already zoned remains much greater, of course, and of the fifty largest cities in the country, twenty-two have zoning ordinances in effect.

In the entire country, 109 cities, towns and villages were zoned on January 1, 1923, as compared with 55 just one year before.

New York, the largest city in the country, has been zoned since 1916, and in contrast, the smallest zoned community had only 131 inhabitants according to the 1920 census. Eighty-one per cent. of the urban population of New York State lives in zoned municipalities. California ranks second among the states with 71% of her urban population zoned; Minnesota, third, with 58%; New Jersey, fourth, with 57%; and Utah, fifth, with 55%. The entire District of Columbia is zoned.

In number of places zoned, New Jersey leads with 31; New York is second with 17; California, third, with 14; Illi-

nois, fourth, with 10; Ohio, fifth, with 9; and Massachusetts and Wisconsin follow with six each.

The complete list of zoned municipalities, as of January 1, 1923, with references to the state acts under which zoning is permitted, may be obtained from the Division of Building and Housing of the Department of Commerce, which also has available for distribution such pamphlets as "A Zoning Primer," explaining in popular style the elements of zoning, and "A Standard State Zoning Enabling Act," a model act for the assistance of states in preparing laws permitting city zoning.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

Many a man would do a better job if he didn't know about putty.—*Ex.*

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—*Elbert Hubbard*.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

I make it a rule never to write a grouchy letter—I telephone.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—*Thoreau*.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T. ....Narberth, Pa.  
Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CABINET WORK.

Weiss, George, & Co. ....1211 Mascher St., Phila.

## CEMENT.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy ....Merion Station, Pa.  
Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co. ....133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Contract Waterproofing Co. ....Harrison Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## EXCAVATING.

Croyle, Guy ....Merion Station, Pa.  
McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank. ....Ornamental Iron Works.  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....816 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....1629 Ludlow St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank. ....Ornamental Iron Works.  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank. ....Ornamental Iron Works.  
1505 N. Mascher St., Phila.

Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.

Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.

Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## ROAD WORK.

Croyle, Guy ....Merion Station, Pa.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.  
Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.  
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
Nicetown Lane and Powder Mill Road, Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.

## SHEET METAL WORK.

Tinney, Walter H. Co., 63rd and Woodland Ave

## SHEETROCK (Wall Board)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., & Co. ....10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

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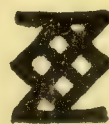


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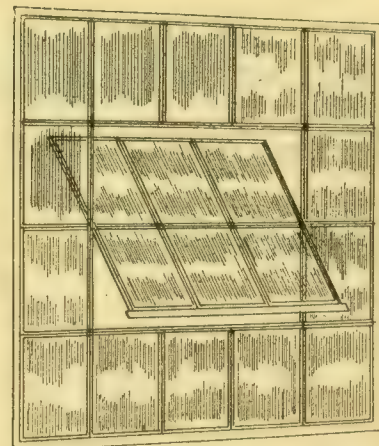
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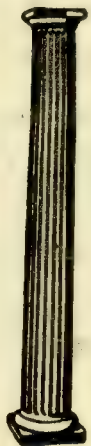
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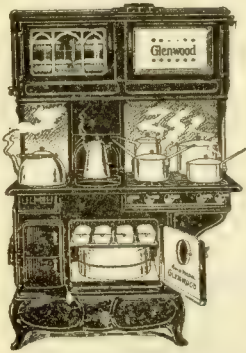
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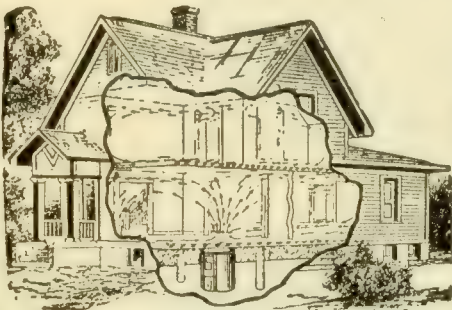
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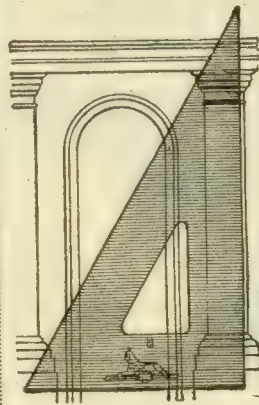
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 6

PHILADELPHIA  
February 7, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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## As The Editor Sees It



The annual banquet of the Builders' Exchange & Employers' Association held at the Manufacturer's Club, Thursday, February 1st, was beyond doubt the best "get together" meeting of the Builders' Exchange held in Philadelphia for many years.

There were many more present at this banquet than at any other meeting ever held by the Exchange, and the affair was conducted in a dignified and enjoyable manner.

Mr. Thomas F. Armstrong, Chairman of the Entertainment Committee, is to be congratulated on the extreme care and thoroughness with which he directed this annual banquet.

The first speaker, the Honorable J. Hampton Moore, Mayor of Philadelphia, gave an interesting resume of the activities of the present administration, and outlined some of the vexing problems that will confront the next candidates for Mayor and for Council. The Mayor paid a very high tribute to the work of the builders in Philadelphia, and to the building profession in general, emphasizing the fact that the work of the builders is permanent.

Following Mayor Moore, Fletcher W. Stites, prominent member of the Philadelphia bar and State Senator from Montgomery County, Penna., gave a very illuminating talk which contained very sound doctrine intermingled with unusual wit. Mr. Stites' talk was so good that

many of his hearers afterward questioned the sincerity of it because it was so idealistic. The sincerity of the address, however cannot be questioned by anyone who is familiar with the upright, straightforward, clean-cut methods followed by Mr. Stites.

The last speaker was the inimitable Edward J. Cattell who is known and loved not only by Philadelphians, but by everyone who has heard him throughout the country. Mr. Cattell as usual was full of very interesting and humorous stories. Mr. Cattell combined with his humor some serious thought, as is his custom, and made some very important suggestions which if followed by the building trades will result in great harmony throughout the organization.

Mr. Joseph M. Steel, President of the Exchange, was unable to be present, but a letter written to the members of the Exchange was read by the Toastmaster, Mr. Armstrong, directing the attention of the building trades to the wonderful opportunities for real service that exist and exhorting the members of the building fraternity to work harmoniously with the idea of promoting the welfare of the public as well as the building trades in general.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

### CHEAPER AND BETTER HOUSES OBJECT OF COMMERCE DE- PARTMENT REPORT

Cheaper and more durable dwellings for the American people is the object of a report made public by the Building Code Committee of the Department of Commerce, and characterized by Secretary Hoover as having "a value far beyond any similar work undertaken to date."

The Committee has included not only the minimum requirements which it believes should be enforced by cities in their building codes for all one and two-family houses, but also an Appendix discussing good practice in small house construction. In this way the 100 page printed report not only serves the primary purpose of presenting a model ordinance which cities may adopt, but is a useful guide to all who are interested in knowing where to save and where to spend in order to obtain a safe, substantial and durable house at a minimum cost. Thirty illustrations are included to explain the text.

In a letter of acknowledgement addressed to Mr. Ira H. Woolson, chairman of the Building Code Committee, Secretary Hoover states:

"I am confident that the generous and voluntary contribution of time and energy which you and your colleagues have given to this work will result not only in a very appreciable money saving to millions of American families, but that it will have a

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positive influence toward better housing that can not be counted in dollars.

"This report has been built up by co-operation of the Government and the public, which I feel will appeal to everyone. The Committee itself represents the great voluntary organizations most interested in public service in this direction, but beyond this you have consulted with many other associations and you have submitted the report in its preliminary form to over 900 municipal officials, architects, engineers, officials of trade associations, and incorporated their criticisms into its final form. I believe this method of intellectual legislation is unique and gives the report a value far beyond any similar work undertaken to date.

"I join with you in the belief that it will be helpful not only through practical use by municipalities in building codes and in promoting greater uniformity in codes throughout the country, but that with its appendix it will prove directly useful to owners and builders of dwellings generally.\* \*"

The report is believed to represent by all odds the most thorough investigation that has yet been made of the engineering and practical side of house building. This subject has never before received even a small part of the expert study that should be due it and hence millions of our small houses have been built with needless waste of some materials, yet with neglect of simple precautions necessary for comfort and durability.

The committee of eminent men making this report includes representatives of the principal architectural, engineering and other interested professional societies and was constituted as follows:

Ira H. Woolson, Chairman, Consulting Engineer, National Board of Fire Underwriters, New York, N. Y.; Edwin H. Brown, Architect, Minneapolis, Minnesota; William K. Hatt, Professor of Civil Engineering, Purdue University, Lafayette, Ind.; Rudolph P. Miller, formerly Superintendent of Buildings, New York, N. Y.; John A. Newlin, in charge of section of timber mechanics, U. S. Forest Products Laboratory, Madison, Wis.; Ernest J. Russell, Architect, St. Louis, Mo.; and Joseph R. Worcester, Consulting Engineer, Boston, Mass.

The work was initiated and the committee was appointed by Secretary Hoover on account of the fact that building codes and builders frequently fail to recognize modern methods of construction, thus adding to building costs and retarding construction activity.

This first report of the committee deals with the construction of one and two-family houses of masonry, concrete and frame types, the latter including veneer and stucco. The value of such construction in the United States amounted to well over a billion dollars in 1922. It is ex-

pected that general adoption of the code, with consequent modification of present unjust and wasteful requirements, will result in substantial conservation of materials, and the saving of many millions of dollars.

The committee recommends that building codes permit eight-inch solid brick, and six-inch solid concrete walls, for 2½ and 3 story dwellings accommodating not more than two families each. Only about forty per cent. of the present city building codes investigated permit eight-inch walls in such dwellings. Eight-inch walls of hollow building tile, hollow concrete block or hollow walls of brick are permissible, but may not exceed 20 feet in height with an additional 5 feet to the peak of the gable. Frame construction would be limited to 2½ stories under the recommendations of the committee.

Metal lath and plaster on wood studs properly firestopped is approved for party and division walls, but at least every alternate wall in row houses must be 8-inch solid brick or concrete, or 12-inch hollow masonry.

Requirements for quality of hollow masonry units agree fairly well with present practice, but those for brick are somewhat below the medium grade established by the American Society for Testing Materials. The report recommends revised working stresses for timber used in dwellings, based on investigations of the U. S. Forest Products Laboratory. For other materials experimental work of the Bureau of Standards was freely drawn on.

Live loads to be required as bases for design are 40 pounds per square foot for floors of wood, and 30 pounds for monolithic floors or those of solid or ribbed slabs. Foundation walls of brick are required to be 12 inches thick for excavated enclosures, and similar concrete walls shall be as thick as the walls they support, but not less than 8 inches. Special hollow building tile 12 inches thick is permitted for foundation walls of frame buildings.

In addition to the requirements in the code itself, the appendix contains a mass of valuable information on the quality of materials which should be used for good results. This Section includes tables showing safe sizes of floor joists and girders, a discussion on protecting lumber against decay, an analysis of methods to be followed to avoid cracking of plaster, and advice on furring the inside of masonry walls.

The discussion of built-in garages, both in the code and the appendix, is regarded as particularly valuable in view of their comparative novelty and their relation to fire hazards. The report is full and explicit on this point. Proper methods of chimney construction and of fire-stopping

(Continued on Page 94)

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**Social Service Building**, 307-09-11 South Broad street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, name withheld. Brick, cut stone, concrete and steel, 10 stories, 50x136 feet, slag and tile roof, cement and oak floors, hollow tile, elevators, waterproofing, terra cotta, bond, iron work, tile and marble work, metal lath, electric work, steam heating. Revised plans in progress.

**Machine Shop**, Stenton avenue, North of East Wyoming avenue, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Apex Machine Co., 2801 West Susquehanna avenue, Philadelphia. Brick and steel, 1 story. Plans in progress. Too early for details. Address all inquiries to architect.

**Residence and Garage**, Spring Bank and Westview avenue, Philadelphia. Architect, Addison H. Savery, 1039 Locust street, Philadelphia. Owners, Mr. and Mrs. Albert E. Bacon, 5224 Greene street, Germantown. Stone, 2 stories, 30x50 feet, wing 18x22 feet, shingle roof, composition and hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress. Architect will take bids in one week.

**Apartment House**, Seventy-third and Market streets, Philadelphia. Architects and engineers, Jesse L. Stetler and Harvey M. Deysher, 1484 North Fifty-second street, Philadelphia. Owners, Home Builders' Co., 1484 North Fifty-second street, Philadelphia. Brick, steel and concrete, 4 stories, 100x200 feet, steam heating, electric lighting, tile and marble work. Plans in progress.

**Garage**, 930 South Bonsall street, Philadelphia. Architect, private plans. Owner, F. W. Hack, 912 South Twentieth street, Philadelphia. Brick, 1 story, 53x62 feet, slag roof, cement floor, electric lighting, iron work (heating and plumbing reserved). Plans in progress. Owner will take general bids.

**Apartment House**, Northeast Corner Nineteenth and Green streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, name withheld. Brick, 4 stories, 40x100 feet and 40x100 feet, connecting wing, electric elevators, iron stairs, fire doors, slag roof, hardwood and

linotile floors, roof ventilators, hollow metal sash, tile and marble work, steam heating, electric lighting, metal lath, will contain 48 apartments. Plans in progress.

**Residence**, East Washington Lane and Stenton avenue, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, James Rayner, care of architect. Stone, 3 stories, 17x47 feet, asbestos shingle roof, hardwood and pine floors, gas heater heating, electric lighting, tile work. Plans in progress. Architect will be ready for bids in ten days.

**Stores and Apartments (10)**, York Road and Widener Place. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x57 feet, slag roof, hardwood and composition floors, metal ceilings, iron work, flush bulks, tile work, hot water heating, electric lighting. Plans in progress. Will be ready for sub-bids in three weeks.

**Residence (alts. and add.)**, Torresdale, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Frame and stucco, 2 story add., asphalt shingle roof, heating extensions, electric lighting, plumbing, hardwood floors, tile work. Preliminary plans in progress.

**Building**, 726 Sansom street, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Benjamin Abrams, care of architect. Brick and granite, 5 stories and basement, 94x17 feet, slag roof, cement and maple floors, hollow tile, elevators, kalamein doors, rolled steel sash, electric lighting, steam heating, metal lath, tile, marble and terrazzo work. Architect will be ready for revised bids in a few days.

**Store and Residence (alts. and add.)**, Twentieth and Watkins streets. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, Alfred Campo, care of architect. Brick, 1 story, 18x18 feet, slag roof, hardwood floors, hot water heating, electric lighting, general interior alterations. Architect will be ready for bids in 2 weeks.

**Residences (17)**, Hutchinson street, North of Duncannon street. Architect, private plans. Owner, Henry P. Schneider, 3713 Old York Road, Philadelphia. Brick, 2 stories,

15x90 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Owner will build.

**Residences (6)**, Eleventh street, North of Duncannon street, Philadelphia. Architect, private plans. Owner, Henry P. Schneider, 3713 Old York Road, Philadelphia. Brick, 2 stories, 15x85 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile and iron work. Owner will build.

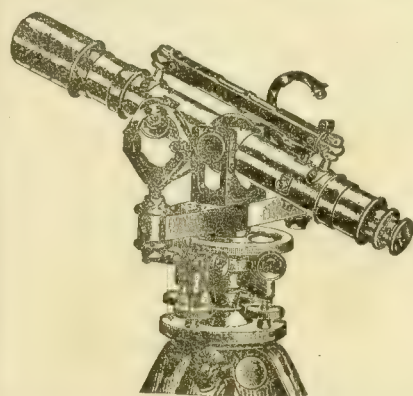
**Operation of Residences**, Pleasant and Chew streets, Germantown. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William A. Lechler, 3705 Germantown avenue, Philadelphia. Brick, 2 stories, 14½x37 feet, slag roof, pine floors, hot air heating, electric lighting, coal ranges. Owner is taking sub-bids.

**Residences (14)**, Sixty-fourth and Montgomery avenue, Overbrook, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Joseph A. Maloney and Martin McWilliams, 6308 Sherwood Road. Stone and brick, 2 stories, 20x35 feet, slate, slag and tin roof, hardwood floors, central steam heating, electric lighting, metal lath, tile work, cement work, garages in basements. Owners ready for sub-bids.

**Apartments and Store**, Northwest Corner Pulaski and Erie avenues. Architect, Paul Livingston Boyd, 6943 Limekiln Pike. Owner, Dr. N. D. Streeter, 1605 West Erie avenue, Philadelphia. Brick, 2 stories, 31½x31¾ feet, irregular, slag roof (hot water heating, electric lighting separate bids), steel work. Owner will be ready for general bids in one week.

**Apartment House (alts. and add.)**, Forty-sixth and Spruce streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Traub Brothers, on premises. Brick, reinforced concrete and steel, 3 stories, 95x29 feet, slag roof, oak and composition floors, controlled heating, electric lighting, metal lath, tile and marble and iron work. Architects are ready for revised bids.

**Store and Dwelling (alts. and add.)**, 319-21 South Fifty-second street. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Nathan Rahinsky, on premises. Brick, 1 story, 31x10 feet, slag roof, composition and pine floors, metal ceilings,



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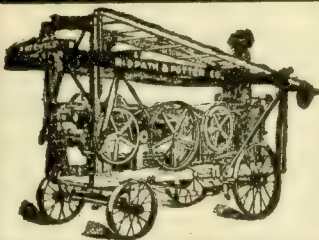
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metal bulks, bond, store fixtures, rolled steel skylights, tile and marble work, electric lighting. Mr. Chestack, care of Girard Realty & Const. Co., 3226 Columbia avenue, will build.

**Residence**, Queen Lane Manor, Philadelphia, \$15,000. Architects, Samuel D. Hawley Co., 30 South Seventeenth street, Philadelphia. Owner, Herbert C. Gray, 1324 West Mt. Vernon street, Philadelphia. Stone, 2½ stories, 25x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Architect will be ready for bids in three weeks.

**Stores and Residences (2) and Residences (17)**, Second and Duncannon streets, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Fishman & Fort, on site of operation. Brick, 2 stories, (2) 16x48 feet, (17) 15x40 feet, tile and slag roof, hardwood floors, metal ceilings, flush bulks, tile and marble work, metal lath, electric lighting, hot water heating. Owners will be ready for sub-bids in a few days.

**Stores and Apartments (5)**, Rising Sun avenue and St. Martin's road and Fanshawe street, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, David Sokolow, 3130 Clifford street, Philadelphia. Brick, 3 stories, 16x65 feet, 15x43 feet, 15x39 feet, and 32x39x30 feet, slag roof, hardwood floors, metal ceilings, metal and flush bulks, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

**Apartment Houses (11)**, Greene and Hortter streets, Germantown. Architect, Edward L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, David I. Mann, on premises. Brick and stone, 3 stories, (2) 16x70 feet, (9) 19x70 feet, slag and tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Residence**, Oak road, Germantown, Philadelphia. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Architect taking bids due February 8th.

**Town Hall**, Chelton and Germantown avenues, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, City Hall, Philadelphia. Brick, steel and concrete, 3 stories, 80x150 feet, steam heating, electric lighting. Owners taking bids due February 10th.

**Miscellaneous Work**, Department of Wharves, Docks and Ferries, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, Municipal Pier No. 4, South Wharves, Philadelphia. Electric wiring,

steam and hot water heating to Girard Pier No. 3, North Wharves, emergency work of repairing floating plant of the Department of Wharves, Docks and Ferries, repairs to dredging buckets. Owners taking bids due February 9th, Room 211, Municipal Pier No. 4, South Wharves.

**Residence**, Scotforth road, Germantown, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Charles J. McManus, Wissahickon below Carpenter street, Germantown. Stone, 2½ stories, 60x29 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work. Architects taking bids due February 12th.

**Buildings**, Brown's Farms, Forty-first Ward, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Barclay H. Warburton, 592 City Hall, Philadelphia. Construction and improvements of buildings. Owners taking bids due February 13th at noon.

**Main Building (add.)**, Brown's Farms, Forty-first Ward, Torresdale, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, 592 City Hall, Philadelphia. Brick, bluestone, concrete, steel and stucco, 3 stories, 40x100 feet, slag roof, cement, composition and pine floors, roof ventilators, iron work, metal lath, marble work. Owners taking bids due February 13th at noon.

**Grading and Paving**, Philadelphia. Owners, Bureau of Highways, City Hall, Philadelphia. Low bidders: Bingham street, Devereaux avenue to Robbins street, Ferranti & Cellesi, Lincoln Building, Philadelphia, \$18,975; Brill street, Darrah to Charles street, T. L. Flannigan, 1204 Montgomery avenue, Philadelphia, \$11,322.36; G street, Wyoming avenue to Ramona avenue, Lombardi & Co., Inc., Lincoln Building, \$65,584.36; Viola street, Fifty-first to Farson, Ferranti & Cellesi, \$2,030.00.

**Apartment House**, Northwest Corner Carpenter street and Cresheim road, \$50,000. Architect, private plans. Owners, The J. O. Const. Co., 718 Land Title Building, Philadelphia. Brick, 4 stories, 79x52 feet, slag roof, hot water heat, electric light, tile work, hardwood and pine floors. Owner will build.

**Residences and Stores (9)**, Sixteenth, Moyamensing avenue and Bigler street, \$38,400. Owner, Fred. S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, electric light. Owner will build.

**Residences (14)**, North side Lyeoming street, East of O street, \$71,000. Architect, private plans. Owner, Harry F. Dinkelacker,

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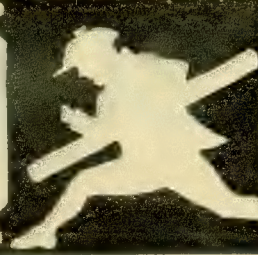
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**Residences (62)**, Palethorpe, Wingohocking, Annsbury and Rising Sun avenue, Philadelphia, \$229,400. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, electric light. Owner will build.

**Factory**, Southwest Corner Hutchinson and Tioga streets, \$10,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, Frank C. Snedaker & Co., Inc., Ninth and Tioga streets. Brick, 3 stories, 28x61 feet, slag roof, electric light, steam heat, steel sash. Owners will build.

**Residence**, East side McCallum street, South of Allen's Lane, \$13,500. Architect, private plans. Owner, Hugh A. Hamilton, Broad street and Somerville avenue. Stone, 3 stories, 26x44 feet and 20x19 feet, slate roof, hardwood floors, electric light, tile work. Owner will build.

**Residences (7)**, North side Duval street, West of Morton street, \$4,800. Architect, private plans. Owner, William Cooper, 5308 Wakefield street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x10 feet, slag roof, hot water heat, electric light, hardwood floors. Owner will build.

**Factory**, East side Eleventh street, North of Allegheny avenue, \$10,000. Architect, private plans. Owner, D. H. Stroud, 3252 Goodman street, Philadelphia. Brick, 3 stories, 54x114 feet, slag roof, steam heat. Owner will build.

**Two-Family Residence**, Northeast Corner Fortieth and Spruce streets, \$15,000. Architect, private plans. Owners, Seidle & Numan, Fifty-fifth and Angora streets, Philadelphia. Brick, 2 stories, 26x31 feet, 21x29 feet, slag roof, hot water heat, electric light. Owners will build.

**Two-Family Residence**, Southeast Corner Fortieth and Irving streets, \$10,000. Architect, private plans. Owners, Seidle & Numan, Fifty-fifth and Angora streets, Philadelphia. Brick, 2 stories, 18x52 feet, slag roof, hot water heat, electric light. Owners will build.

**Residences (8)**, East side Fortieth street, North of Spruce, \$7,500 each. Architect, private plans. Owners, Seidle & Numan, Fifty-fifth and Angora streets, Philadelphia. Brick, 2 stories, 16x30 feet, 12x15 feet, slag roof, electric light, hot water heat. Owner will build.

**Residences (2)**, Pleasant and Musgrave streets, \$11,000. Architect, private plans. Owners, Parker & Spaeth, 2012 East Cheltenham avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hot water heat, electric light, hardwood floors. Owners will build.

**Residence**, East side Tabor road, North of Shelmire street, \$4,500. Architect, private

plans. Owner, Wilford Gaul, 1302 Jackson street, Philadelphia. Brick, 2 stories, 20x30 feet, slag roof, hot water heat, electric light. Owner will build.

**Residence**, Northwest Corner Shelmire and Bingham streets, Philadelphia, \$3,500. Owner, Edwin Davis, 7301 Oxford avenue, Philadelphia. Frame, 1 story, 26x41 feet, electric work. Owner will build.

**Store and Two-Family Residence (alts.)**, \$2,500. Owner, D. Gershenson, on premises. General alterations. Owner will build.

**Garage**, East side Fox street, North of Toronto street, \$6,000. Architect, private plans. Owner, Gaetano Salvato, 3100 Bonsall street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Owner will build.

**Building (alts.)**, Delaware avenue and Bainbridge street, \$4,000. Architect, private plans. Owner, Charles Goldman, 719 Walnut street, Philadelphia. General alterations. Owner will build.

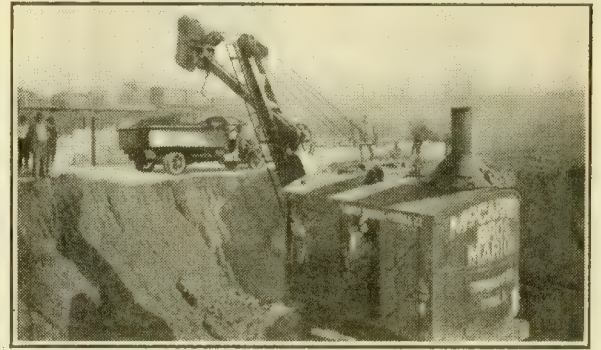
**Store and Apartments (alts.)**, 1434 West Cumberland street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, Rudolph Sternberg, 2724 West Girard avenue, Philadelphia. Architects taking bids due February 7th.

**Residences (5)**, Sydenham street, North of Courtland street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William Moore, 5218 North Eleventh street, Philadelphia. Brick, 2 stories, 15½x38 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owner is taking sub-bids.

**Y. M. H. A. Building**, Broad and Pine streets, Philadelphia. Architects, Frank E. Hahn, 1112 Chestnut street, and Paul P. Cret, Otis Building, Philadelphia. Owners, Y. M. H. A., Albert M. Greenfield, chairman of Building Committee, Fifteenth and Chestnut streets, Philadelphia. Brick, steel and stone, 5 stories, 141x150 feet. Plans completed. Architect will be ready for bids in a few days.

**Residences (21)**, Sixty-fifth street, North of Berks, Wynnefield, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, name withheld. Brick and stone, 2 stories, 16x50 feet, slag and tile roof, hardwood and cement floors, hot water heating, electric lighting, tile work, metal lath (garage in basement). Plans in progress.

**Residences (2)**, North side Osage avenue, West of Forty-eighth street, \$7,000. Architect, private plans. Owner, Samuel Schlosberg, 5446 Locust street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hot water



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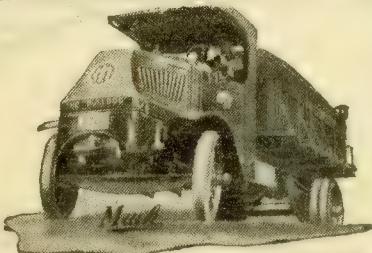
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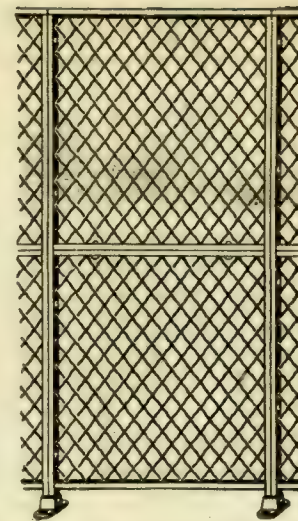
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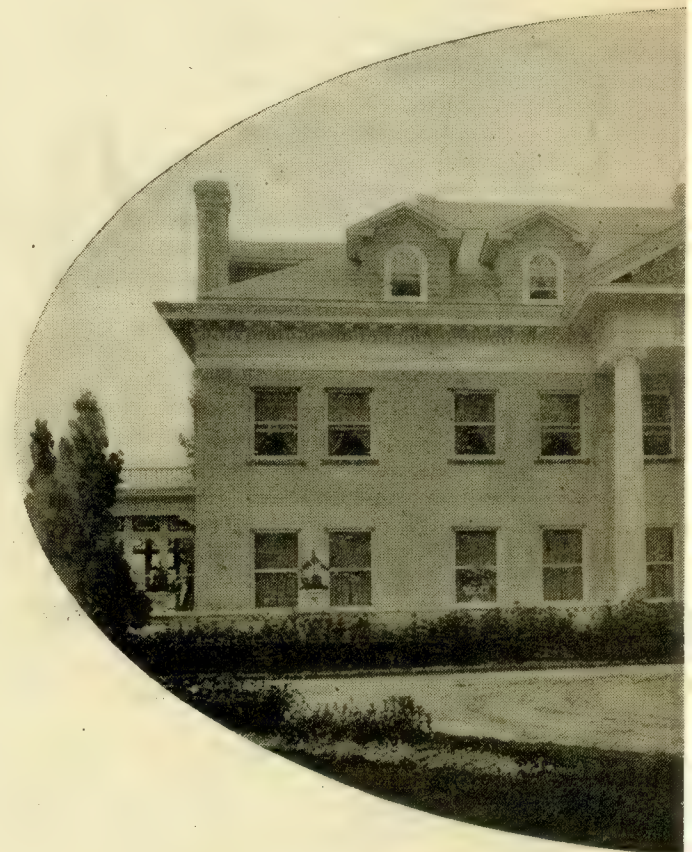


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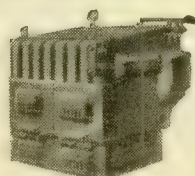
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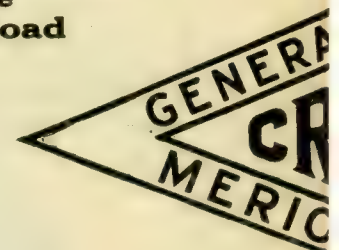
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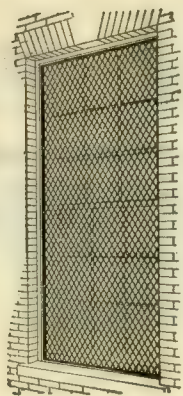
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**Residences and Garages (14)**, North side Osage avenue, West of Forty-eighth street. Architect, private plans. Owner, Samuel

Schlosberg, 5446 Locust street, Philadelphia. Brick, 2 stories, 16x30 feet, 13x16 feet, slag roof, hot water heating, electric lighting, oak, pine and cement floors. Owner will build.

## Contracts Awarded

Scope of Contract and Successful Bidders; “Inside” Information for the Material Man and Interior and Exterior Fitter.

**Elevator Shafts and Building (alts.)**, Seventh, Eighth and Market streets, Philadelphia, \$130,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Concrete, brick, cut stone and steel, slag roof, composition, mosaic, oak and maple floors, metal lath, hollow metal skylights, tin covered doors, bond, dampproofing, metal lath, waterproofing, iron work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

**Stores, Offices and Art Gallery**, 1924-26 Chestnut street. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Philadelphia Art Gallery, Fifteenth and Chestnut streets, Philadelphia. Brick, concrete, steel and limestone, 4 stories and basement, 230x44 feet, slag roof, maple and cement floors, iron work, metal lath, tile and

marble and terrazzo work, rolled steel sash, rolled steel and kalamein doors. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Bank Building**, Forty-ninth and Baltimore avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Belmont Trust Co., care of architect. Brick, cut stone, steel and reinforced concrete, 1 story, 65x48 feet, slag roof, concrete and pine floors, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal doors, iron work. Contract awarded to Potts Brothers & Cooper-son, 1016 Cherry street, Philadelphia.

**Community House**, Holmesburg, Philadelphia, \$30,000. Architect, private plans. Owners, Emmanuel Protestant Episcopal Church, Holmesburg, Philadelphia. Stone, 1 story and basement, 43x85 feet, slate roof, oak and

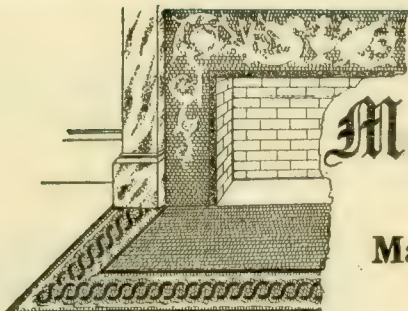
pine floors, vapor heating, electric lighting, iron work. Contract awarded to Joseph A. Hand, 2511 Rhawn street, Philadelphia.

**Building (alts.)**, 2042 Chestnut street, Philadelphia, \$10,000. Architects, Guy B. Johnson and H. E. Kennedy, 1324 Walnut street. Owner, Harry Herzberg, 1725 Chestnut street, Philadelphia. Brick, steel and cut stone, 1 story, 30x20 feet, tile roof, oak floors, heating, lighting and plumbing alterations, metal lath, terrazzo and marble work, hollow metal skylights, bond, mill work, carpentry, painting, glazing, plastering. Contract awarded to Farrell-Roth Const. Co., 122 Diamond street, Philadelphia.

**Garage (fire repairs)**, 133 North Twenty-second street, \$13,800. Architect, private plans. Owner, Mrs. Annie B. Marmon, Indianapolis, Ind. Timber reinforcing, slag roof, roof ventilators, hollow metal skylights, steam heating, electric work, plumbing, painting, glazing. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Garage and Storage**, Southwest Corner Taney and Parrish streets, \$9,500. Architect, private plans. Owner, Harman Sacks, 865 North Twenty-eighth street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, steel sash, electric lighting. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

**Store add.**, 2641 Geremantown avenue, Philadelphia, \$6,000. Architect, private plans. Owner, Frederick Kurz, on premises. Brick, 2 stories, 24x52 feet, slag roof, electric work.



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Contract awarded to A. N. Tatro & Co., 1345 Arch street.

**Residence**, South side Cottman street, North of Tabor road, \$5,000. Architect, private plans. Owner, Robert Winkler, Cottman street, East of Lawndale avenue. Frame, 2 stories, 22x44 feet, shingle roof, hot water heat, electric light, hardwood and pine floors, tile work. Contract awarded to A. W. McKinley, 724 West Annsbury street, Philadelphia.

**Garage**, 6807 G street, Philadelphia, \$4,250. Architect, private plans. Owner, P. Tattersfield, on premises. Stone, 1 story, 21x33 feet, slag roof, cement floors. Contract awarded to James A. Batty, 4237 Pechin street, Philadelphia.

**Radial Chimney**, Northwest Corner Delaware avenue and Tasker street, \$16,500. Architect, private plans. Owners, W. J. McCahan Sugar Refinery, on premises. Brick, 205 feet high. Contract awarded to Alphonse Custodis Chimney Co., 315 South Fifteenth street, Philadelphia.

**Building (alts.)**, 3334 Market street, Philadelphia, \$3,000. Architect, private plans. Owners, Supplee-Wills-Jones Co., 1523 North Twenty-sixth street, Philadelphia. General alterations. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Store and Hall (alts.)**, 1805 Market street, Philadelphia, \$2,800. Architect, private plans. Owner, Park J. Boyle, 2224 West Lehigh avenue, Philadelphia. Carpentry, mill work, painting, glazing, alterations. Contract awarded to George B. Smith & Son, 606 North Sixteenth street.

**Storage (alts.)**, 3034 Boudinot street, Philadelphia, \$2,600. Architect, private plans. Owner, William Aldworth, on premises. General alterations. Contract awarded to Samuel S. Sanders, 1232 Marlborough street.

**Storage (alts.)**, 16 North Front street, Philadelphia, \$2,000. Architect, private plans. Owners, Woodward & Dickerson, 16 North Front street, Philadelphia. Carpentry, mill work, general alterations, painting, glazing. Contract awarded to George H. Evans, Inc., 105 North Thirteenth street, Philadelphia.

**Store (add.)**, 248 South Sixtieth street, Philadelphia, \$3,900. Architect, private plans. Owner, C. Mahl Olmer, on premises. Brick, second story add., 20x60 feet, slag roof, pine floors. Contract awarded to H. A. Paxson, 6006 Market street, Philadelphia.

**Residence and Store (alts.)**, 267 South Fifty-second street, Philadelphia, \$3,000. Architect, private plans. Owner, Albert M. Leskin, on premises. General alterations, carpentry, mill work. Contract awarded to Charles Belinsky, 2630 South Ninth street, Philadelphia.

**Residence and Store (alts.)**, Southeast Corner Stenton avenue and Spencer, \$2,700. Architect, private plans. Owner, Frank Blumhardt, on premises. General alterations, carpentry, mill work, painting. Contract awarded

to Frank Corp., Ogontz avenue and Limekiln pike.

**Residence (alts.)**, 313 South Third street, Philadelphia, \$2,000. Architect, private plans. Owner, Mrs. L. Newhoff, 1826 South Broad street, Philadelphia. General alterations. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

**Apartment (alts.)**, 2031 North College avenue, Philadelphia, \$2,000. Architect, private plans. Owners, Frank and Mary Bates, on premises. General alterations. Contract awarded to J. H. Bishop, 56 North Sixty-first street, Philadelphia.

**Residence and Store (alts.)**, Southwest Corner Thirty-third and Cumberland streets, \$2,000. Architect, private plans. Owner, Mr. Pellman, 2026 North Thirty-first street, Philadelphia. General alterations. Contract awarded to Joseph Sosnofsky, 1912 North Patton street.

**Fire Tower**, North side Hagert, East of Emerald street, Philadelphia, \$3,000. Architect, private plans. Owner, James Henry, Hagert and Emerald streets, Philadelphia.

Brick work, cement work. Contract awarded to H. H. Brocklehurst, 512 West Norris street.

**Store (alts.)**, 8 North Thirteenth street, Philadelphia, \$2,000. Architect, Richard H. Smythe, Brooklyn, N. Y. Owners, R. W. Realty Co., 121 Duane street, New York. Carpentry, mill work, general alterations. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Warehouse (alts.) and Elevator Shaft**, Northeast Corner Front and Bainbridge streets, Philadelphia, \$16,000. Architect, private plans. Owners, Merchants' Warehouse Co., Tenth and Chestnut streets, Philadelphia. Brick and concrete, 8 stories, (2) elevator shafts. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Residences and Stores (6)**, South side Woodland avenue, East of Fifty-fourth street, \$41,000. Architect, private plans. Owner, Arthur Sternberg, 120 Liberty street, Camden, N. J. Brick, 2 stories, 15x50 feet, slag roof, hot water heat, electric light, oak and pine floors. Contract awarded to Herman Denerman, 120 Liberty street, Camden, N. J.

## PENNSYLVANIA

### Construction News

**Sunday School and Church (alts.)**, Sinking Springs, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Reformed Church, Sinking Springs, Pa. Architect selected. Too early for details.

**Hospital (add.)**, Walnut street, Reading, Pa. Architect, Fred. Muhlenberg, Liberty Trust Building, Reading, Pa. Owners, St. Joseph's Hospital, Walnut and Birch streets, Reading. Brick, concrete and terra cotta, 4 stories, 45x250 feet, asphalt roof, composition floors, steam heat (electric work reserved), metal lath, tile, marble and terrazzo work, hollow tile, (2) elevators, roof ventilators. Architect selected.

**Grade School**, Lebanon, Pa., \$225,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon School Board, W. R. Mark, secretary, Lebanon, Pa. Brick, hollow tile, 2 stories and basement, 19 rooms. Too early for details.

**Store (alts. and add.)**, Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Haak Brothers, 737 Cumberland street, Lebanon, Pa. Brick, composition roof, new front, face brick, rolled steel skylights. Plans in progress.

**Residence (alts. and add.)**, Reading, Pa. Architect, L. D. Lance, 108 North Fifth

street, Reading, Pa. Owner, John Bertolett, care of architect. Frame, 2 stories, 12x20 feet, general interior alterations. Plans in progress.

**Church, Sunday School and Parish House**, Emaus, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Evangelical Lutheran Church, Rev. J. S. Savacool, Emaus, Pa. Stone, 1 story and basement, and 2½ stories, 107x48 feet, slate roof, cement floors, metal lath, electric light, east stone trim, structural steel, light and cast iron, waterproofing. Revised plans in progress. Will be ready for bids in two weeks.

**Temple Building, Office and Auditorium**, Third and Forster streets, Harrisburg, Pa., \$150,000. Architect, not yet selected. Owners, Odd Fellows' Hall Association, of Harrisburg, Pa. Brick and stone, 4 stories, 37x130 feet. Architect not yet selected. Too early for details.

**Physical Educational Building**, State College, Pa., \$500,000. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Penn State College, S. K. Hostetter, State College. Brick, 3 stories. Preliminary sketches in progress.

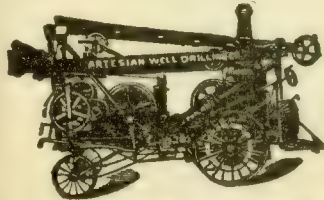
**Maternity Building**, Bryn Mawr, Pa. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Bryn

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**Church and Sunday School**, Mt. Joy, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, United Brethren Church, H. M. Nissly, secretary of Building Committee, Mt. Joy, Pa. Stone, 1 story and basement, 50x80 feet, steam heat, electric light, Carey slate roof, hardwood floors, structural steel and iron work, sheet metal work, bond, cast stone. Owners taking bids due February 10th.

**Factory**, West Reading, Pa. Architect, H. G. Mohn, Mohnton, Pa. Owner, J. Biehl, Biehl Wagon & Auto Works, 31 South Fifth street, Reading, Pa. Brick, steel, 2 stories, 85x200 feet, slag roof, pine floors, rolled steel sash, electric light. Owner taking bids due as soon as possible.

**School Building**, Broomall, Delaware County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Own-

ers, School District of Marple Township, care of secretary, S. A. D. Lyon, Broomall, Pa. Brick and stone, 2 stories, 62x74 feet. Owners taking bids due February 20th at noon. Plans may be secured from architect's office. Deposit, \$25.00. Refund, \$10.00.

**School Building**, Green Tree, Delaware County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School District of Willistown Township, Delaware County, Pa., care of Secretary Sydney L. Roberts, Malvern, Pa. Plans may be secured from architect's office. Deposit, \$25.00. Refund, \$10.00. Owners taking bids due February 19th at noon.

**Store**, Lansford, Pa. Architect, F. A. Muhlenberg, Liberty Trust Building, Reading, Pa. Owners, J. C. Bright Co., Lansford, Pa. Brick, limestone, 2 stories, 70x170 feet, slag roof, hardwood floors, steam heat, electric light, store fixtures. Architect will be ready for bids February 8th, due February 24th.

**Residences (36)**, South side of Chester pike, East of State road, Bywood, Pa. Architect, private plans. Owner, J. D. Fisher, 5414 Thompson street, Philadelphia. Frame and stone, 2½ stories, 16x18 feet, wing 20x15 feet, Rex shingle roof, oak floors, hot water heating, electric lighting, tile work. Owner will build.

**Church (alts. and add.)**, Tamaqua, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Jerome's Roman Catholic Church, Rev. H. Baker, Tamaqua, Pa. Stone, 1 story and basement, 20x60 feet, composition roof, hardwood and concrete floors, steam heat, electric light, tile work, stained glass, exterior plastering, decorating. Architect will sub-let.

**Residence**, Narberth, Pa. Architect, private plans. Owner, A. R. Sleath, Forrest avenue, Narberth, Pa. Hollow tile and stucco, 2 stories, 40x25 feet, hot water heating, electric lighting. J. H. Hinkle Co., 326 South Twenty-fourth street, taking sub-bids due February 18th.

**Bungalow**, Fort Washington, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Rev. M. F. Dumstrey, care of architect. Frame and stucco, 1½ stories, shingle roof, hardwood floors, hot air heating, electric lighting. Architect will build.

**Residences (4)**, St. Davids, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Henry Silvert, Bryn Mawr, Pa. Stone, brick and stucco, 2½ stories, 26x38 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

**Peabody High School**, Margarett, Beatty and Highland avenue, Pittsburgh, Pa. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh. Owners, Board of Education, George W. Gerwig, secretary, Office of the Superintendent, Fulton Building, Pittsburgh, Pa. Brick, reinforced concrete, cut stone and steel, 2 stories and basement, 302x61 feet and 148x24 feet, composition roof, linotile, cement and maple floors, hollow tile, elevators, safety treads, metal weather strips, waterproofing, terra cotta, iron work, bond, kalamein doors, rolled steel sash, tile, marble and terrazzo work, metal lath. Lowest bidders: P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, \$559,750; Pittsburgh Eng. Co., Pittsburgh, Pa., \$568,306.

**Residences (4)**, North Derry street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. J. H. Kreider, 1416 Derry street, Harrisburg, Pa. Cinder block and stucco, 2 stories. Preliminary plans in progress.

**Office**, Duncannon, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, P. F. Duncan, Duncannon, Pa. Brick, 1 story, 30x50 feet. Preliminary plans in progress.

**Apartment Building (alts.)**, 40 South North street, Harrisburg. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, Charles Goodman, 109 North Second street, Harrisburg, Pa. Brick, 3 stories. Plans in progress.

**Residence (alts.)**, North Front street, Harrisburg, Pa., \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, J. W. Pomraning, Kunkel Building, Harrisburg, Pa. General interior and exterior alterations. Plans in progress.

**Residence and Garage**, Second street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, S. W. Shoemaker, 421 Walnut street, Harrisburg, Pa. Brick, 2½ stories. Plans in progress.

**Studio and Residence (alts.)**, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Norman G. Guth, 46 West High street, Carlisle, Pa. Brick, 1 story, 25x30 feet, asphalt roof, hardwood floors, general interior alterations. Plans in progress.

**Bank (add. and alts.)**, Williamstown, Pa., \$40,000. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Williams Valley Park, care of architects. Brick, 2 stories, general interior alterations, tile and marble work, vault, bank fixtures. Plans in progress.

**School**, Troy, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Troy School Board, W. R. Croman, secretary, Troy, Pa. Brick, 2 stories, 265x110 feet, slate roof, hardwood and cement floors, steam heat, electric light, metal lath, hollow tile, safety treads, roof ventilators, skylights, waterproofing and dampproofing, iron stairs, ornamental iron work. Owners will be ready for bids February 6th, due March 5th.

**Moose Temple**, Third and Boas streets, Harrisburg, Pa., \$150,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Loyal Order of Moose, No. 107, J. A. Searfauss, 220 Boas street, Harrisburg, Pa. Granite, 3 stories, 47x155 feet, composition roof, hardwood floors, concrete floors (heating, plumbing and electric work reserved), roof ventilators, terra cotta, ornamental iron work. Architect will be ready for bids February 8th or 9th.

**High School**, Enola, Pa., \$50,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, East Pennsboro Township School Board, Mr. Hoffman, secretary, Enola, Pa. Brick, 2 stories, 37x115 feet, 42x92 feet, composition roof, pine floors, hot air heat, electric light, hollow tile, metal lath, safety treads, roof ventilators, skylights. Owners taking bids due February 16th.

**Residences**, Nos. 1, 2 and 3, Radnor, Pa. Architect, Louis F. Adams, 1701 Chestnut street, Philadelphia. Owner, Oswald Chew, Commercial Trust Building, Philadelphia. Stone and stucco, 2½ stories, 53x30 feet,

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**Twin Residence**, Sharon Hill, Pa. Architect, Fred. N. Greisler, 1035 Walnut street, Philadelphia. Owner, Richard Higson, care of architect. Stone and stucco, 2½ stories, 19x36 feet each, garage, 1 story, 20x22 feet, slate roof, hardwood and cement floors, hot water heating, electric lighting, tile work. Architect taking bids due February 7th.

**Residences (10)**, Highland Park, Pa. Architect, M. M. Boonin, 1506 North Alden street, Philadelphia. Owner, Adolph Andrien, 123 North Sixty-third street, Philadelphia. Stone and stucco, 2½ stories, 34x20 feet, shingle and slag roof, oak floors, hot water heating, electric lighting, tile work. Owner is taking sub-bids.

**Bank**, Third and Caulder streets, Harrisburg, Pa. Architects, Simon, Brittain & English, Pittsburgh, Pa. Owners, Keystone Bank, Mr. J. P. McCullough, on premises. Granite. Too early for details.

## Pennsylvania Contracts Awarded

**School Building**, Millmont, Reading, Pa. Architect, Frederick A. Muhlenberg, Liberty Bank Building, Reading. Owners, School District of Reading, Administration Building, Eighth and Washington streets, Reading, Pa. Reinforced concrete, brick, cut stone and steel, 2 stories, 150x100 feet, asbestos asphalt roof, concrete, monolithic finish, linoleum and maple floors, safety treads, roof ventilators, waterproofing, dampproofing, terra cotta, iron work, iron stairs, floor hardener, bond, fire doors, rolled steel sash, marble and terrazzo work, metal lath (heating, lighting and plumbing separate bids). Contract awarded to Beard Const. Co., Reading, Pa.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Cambria County, Route 276, Washington and Cresson Townships and Lilly Borough, \$135,920.05. Contract awarded to Leechburg Const. Co., Leechburg, Pa.

**Residence (alts. and add.)**, Haverford, Pa. Architects, Melvain & Roberts, Otis Building, Philadelphia. Owner, J. Livingston Poultney, Haverford, Pa. Carpentry, mill work, hardware, shingle roof, plastering, painting, electric lighting, plumbing, bond.

Contract awarded to Herbert G. Campion, Otis Building, Philadelphia.

**Church**, Grimsville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, New Bethel Zion Congregation, care of architect. Stone, 1 story and basement, 110x60 feet, slate roof, pine floors, steam heat, electric light. Contract awarded to George Meinholz, Baer Building, Reading, Pa.

**Garage**, Haverford, Pa. Architects, Bailey & Bassett, 421 Walnut street, Philadelphia. Owners, Merion Cricket Club, Haverford, Pa. Stone, cut stone and steel, 1 story, 60x120 feet, slate roof, cement floors, roof ventilators, steam heating, electric lighting, bond, iron work. Contract awarded to H. P. Wolfe & Co., Bryn Mawr, Pa.

## New Jersey Construction News

**Elementary and High School**, Oxford, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, Oxford School Board, care of R. Trexler, Clerk, Oxford, N. J. Fireproof, brick and steel, 2 stories, 95x170 feet, slate roof, hardwood floors, hollow tile (heating, plumbing and electric work reserved), metal lath, hollow tile, tile, marble and terrazzo work, safety treads, roof ventilators, skylights, waterproofing and dampproofing, bond, iron stairs, ornamental iron work. Plans in progress.

**Dairy and Animal Husbandry Building**, New Brunswick, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, care of Dr. Lipman, Agricultural College, New Brunswick, N. J. Fireproof, 2½ stories, 83½x105 feet, slate roof, hardwood and concrete floors (heating, electric work and plumbing reserved), hollow tile, metal lath, tile and marble work, (2) elevators, rolled steel sash and skylights, roof ventilators, fire doors, waterproofing, dampproofing, bond, floor hardener, ornamental iron work. Architects taking bids due February 26th.

**Bank Building (alts. and add.)**, Bridgeton, N. J. Architect, Thomas A. Ash, 1220 Locust street, Philadelphia. Owners, Bridgeton National Bank, 15 South Laurel street, Bridgeton, N. J. Limestone, 2 stories, irregular size, slag roof, terrazzo floors, vapor heat-

ing, electric lighting, general alterations and additions. Architect ready for bids.

**Store**, North Broad street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Julius Schafer, 510 Riverside avenue, care of architect. Fireproof, brick, steel, reinforced concrete, 5 stories, 125x27 feet, slag roof, concrete floors, metal lath, tile work, rolled steel sash and skylights, roof ventilators, electric lighting (heating and elevators reserved), terra cotta front. Architect taking bids due February 13th.

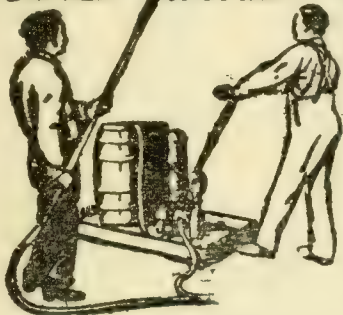
**Residence**, Princeton, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, C. O. B. Dennen, Princeton, N. J. Hollow tile and stucco, 2½ stories, 30x32 feet, slate roof, hardwood floors, vacuum heat, electric light, tile work. Architects taking bids due February 10th.

**School Building (add.), Boys' and Girls' Cottage, Girls' Cottage and Transformer Station**, near Trenton Junction, N. J. Architects, Guilbert & Betelle, Newark, N. J., and Arnold H. Moses, Camden, N. J. Owners, New Jersey School for Deaf, near Trenton Junction, N. J. Lowest bidders: George W. Shaner & Son, Palmyra, N. J., \$174,777.77; Gibbs Muller Co., 215 South Broad street, Philadelphia, \$184,950. Plumbing, Jaenig & Peoples, Newark, N. J., \$13,190. Heating, Trenton Plumbing & Heating Co., Trenton, N. J., \$7,995.50. Electric, Buzby & Thomas, Bourse, Philadelphia, \$3,986.

**Apartment House**, West State street and Chancery lane, Trenton, N. J. Architect, Walter H. Hankin, 39 East State street, Trenton, N. J. Owner, Charles H. Hildebrecht, Trenton, N. J. Reinforced concrete, brick and steel, 9 stories, 165x67 feet, slag roof, granolithic, composition, pine and oak floors, elevators, metal ceilings, terra cotta, iron work, floor hardener, kalamein doors, hollow metal sash and skylights, tile and marble work, electric lighting, metal lath. Lowest bidders: William Ehret, 13 West State street, Trenton, N. J., \$304,000; J. H. Morris, 211 North Montgomery street, Trenton, N. J., \$316,000.

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## Delaware Construction News

**Store Building**, 929 Market street, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owners, Delaware Avenue Realty Co., Wilmington, Del. Steel, 1 story, 20x117 feet, composition roof, sliding door hangers, wire glass skylights, electric lighting. Plans in progress.

**Consolidated School**, Dover, Del. Architect, William Heyl Thompson, 1211 Walnut street, Philadelphia. Owners, Dover Special School District, Dover, Del. Brick, concrete, precast and cut stone and steel, 2 stories, 224x80 feet, slate and slag roof, cement and maple floors, metal lath, safety treads, waterproofing, iron work, bond, kalamein doors, rolled steel skylights, steam heating. Contract awarded to Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, but not yet signed.

**Residence (alts.)**, Cooch Bridge, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Edward W. Cooch, Wilmington, Del. New partitions, hardwood floors, general interior alterations. Contract awarded to Pearson & Benjamin, Marshallton, Del.

**Factory (alts. and add.)**, Wilmington, Del., \$10,900. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Speakman Co., 816 Tatnall street, Wilmington, Del. Stone and brick, 2 stories, 65x80 feet, slag roof, wood floors, steam heat, general alterations. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

**Residence**, Seventeenth and Riverside streets, Wilmington, Del., \$18,000. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owner, Achille Recerd, care of architect. Brick, 2½ stories, 42½x34½ feet, slate roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to E. L. Johnson, 131 Clayton street, Wilmington, Del.

By an oversight the Keystone telephone number of the Iona Ventilator Co. was omitted from the *Directory of Architectural and Builders' Trades* on Page 66, under the heading of Skylight, Cornices and Ventilator Manufacturers. We suggest for the convenience of our subscribers that Park 3589 be inserted therein.

### Proposals

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., January 29, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 27, 1923, for painting and papering at the United States Public Health Service Hospital, Norfolk, Va., in accordance with the specification, copies of which may be had at this office or from the Superintendent of Construction on the site, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

(Continued from Page 84)

are also treated. A number of valuable references are given to easily obtainable pamphlets dealing with special points.

The report may be obtained from the Superintendent of Documents, Washington, for 15 cents a copy.

### SEASONAL EMPLOYMENT IN BUILDING

BY D. KNICKERBACKER BOYD

*Architect and Structural Standardist,  
President, Philadelphia Building  
Congress*

More possible working days are lost by workers in the building "trades" than by those in almost any other industry. The year's work is literally "shot to pieces" by intermittency due to unemployment, not only from seasonal causes, which for the most part could be overcome, but from other causes many of which are

related. Among them is (1) indoor work so often unnecessarily required to be done in warm weather and in a crowded construction period when it could be deferred till colder weather and a lowered employment period; (2) demolition not being started until the time of the year that the new construction which replaces the old should itself be under way; (3) lack of foresight in ordering or assembling materials or fabricated products in advance of construction needs; (4) delays in closing contracts with sub-contractors (sometimes unfortunately due to the other unfair practice of "shopping" for lower estimates.)

Two of the most potent causes for lack of employment in localities subject to varying degrees of cold and possible inclemencies of the weather, say in Dec. January, February and March, are: (1) the psychological attitude of the building public towards starting anything in advance of this period of the year due to lack of concerted effort on the part of

TABLE 1—DISTRIBUTION OF TIME FOR 1920 IN PHILADELPHIA  
BUILDING TRADES

	Full Satur- days off	Half Satur- days off	Recogn- ized Holi- days	Possible Effective Working Days	Aver. days Worked Per Year	Total days Lost
Asbestos workers .....	0	52	6	281	185	96
Bricklayers .....	10	42	7	275	182	93
Stonemasons .....	10	42	7	275	185	90
Electrical workers .....	0	52	6	281	216	65
Elevator constructors .....	0	52	6	281	216	65
Engineers .....	0	52	6	281	200	81
Firemen .....	0	52	6	281	200	81
Granite Cutters .....	0	52	6	281	180	101
Lathers, wood, wire and metal. 0	52	0	6	255	170	85
Plasterers .....	0	52	6	281	180	101
Plasterers Helpers .....	0	52	6	281	176	105
Cement Finishers .....	52	0	6	255	182	73
Painters .....	52	0	6	255	182	73
Paper Hangers .....	52	0	6	255	200	73
Plumbers .....	16	36	5	273	176	106
Riggers .....	0	52	6	281	182	98
Composition Roofers .....	0	52	7	280	170	110
Slate and Tile Roofers .....	0	52	7	280	185	95
Sheet-metal Workers .....	0	52	6	281	180	101
Steam Fitters .....	0	52	6	275	152	123
Iron Workers .....	12	40	6	280	180	100
Stone Cutters .....	0	52	6	281	225	56
Upholsterers .....	0	52	5	282	200	82
Tile Setter .....	0	52	5	282	200	82
Tile Setters' Helpers .....	0	52	6	281	217	64
Building Laborers .....	0	52	6	281	217	64

*Note*—Plasterers, painters and paper hangers have a 40-hour week the year round; no Saturday work. Stonemasons, bricklayers and carpenters have a full day off on Saturdays in July and August and Saturdays before Labor Day. Plumbers have a full day off on Saturdays of June, July, August and September; half-days on Saturdays the balance of the year. Iron workers have full days off on Saturdays of June, July and August. All other trades work 44-hour week, 8-hour day, 4 hours on Saturday the year round, except building laborers, who work 50-hour week, 9-hour days and 5 hours on Saturday. On some work the building laborers do not have Saturday half-days off. The 52 Sundays have been eliminated. Recognized holidays are considered as falling on other than Saturdays.



the contractors in each locality to convince themselves and the public through foresight and practical demonstration that construction can be advantageously carried forward by overcoming climatic handicaps; (2) the failure of employers, workers and others interested, to settle definitely, not later than say October 1, the scale of wages which will prevail for all the building trades in that locality on and after the beginning of the next calendar year and throughout the year.

And while we are speaking of scales it would be interesting to see if all manufacturers and dealers in each locality would settle upon prices at which deliveries would be made throughout the year instead of by the operation. With the knowledge of all costs fixed in the minds of investors and building owners in October for the next fifteen months, winter construction would become very popular with all those desiring to avoid the "spring rush." Thus would year-round construction become an economic accomplishment.

There are several things which must be done toward eliminating the great unemployment waste in the building and construction industry. Let us consider three of them in the following order:

1. Secure results through studies as to the effect of weather conditions on various kinds of buildings under construction so that intermittency of employment due to the interference of the elements could be promptly and co-operatively prevented by the promotion of better methods and management to decrease all such as could properly be overcome by the reasonable use of commercially possible precautions.

2. Secure the co-operation of building owners, managers, and tenants in bringing about a more equitable distribution of requirements in maintenance, alterations and equipment in existing buildings as distinguished from new construction so that the wasteful effects of intermittent employment could be greatly reduced as a corollary of seasonal occupation.

3. Inform the public in no uncertain way as to the nature, extent and costliness of the unemployment waste. Through this means and demonstrations as above to secure the co-operation of public, corporate and private ownerships in a sensible distribution of their new construction requirements in each region.

Individual contractors, aside from large regionally distributed construction concerns which are already realizing some of the possibilities, cannot without public appreciation and support cope with the first of these alone and building owners should not be greatly criticized for failure to co-ordinate their maintenance work with low employment periods because the building construction industry as a whole has until very recently been sadly neglected by those constituting its component groups. The "readiness to serve" bur-

den of expense, due to waiting for public recognition of construction needs, has been allowed to grow to present bounds with little or no check. At last the public has become aroused to the high cost of construction for which it, in itself, is in a large measure responsible.

The existing pronounced shortage of building workers has at last caused recognition of the fact that their ranks have been decreasing for years past to an alarming extent. This in the face of increasing demands for their service and constantly rising wages has brought with it a realization that something is wrong, and that steps must be taken to recruit the ranks.

The usual procedure has been to establish courses for training apprentices which while apparently a wise move has not succeeded as it should. There are several reasons for this, the most potent being that present mechanics discourage young men from entering the crafts, as I prefer to call them rather than trades, because of the lost time which apparently accentuates the hazards and hardships.

Many young men, none too anxious to take up manual labor, especially outdoors, heed such advice without seeking inspiration for entering a calling in which they do not appreciate the possibilities for individual expression through real craftsmanship, nor comprehend the joy of achievement in what can be, and should be, an art and not a mere job.

The "job" of the building "craftsman" must, then, be made more attractive. One sure way to help in doing it is to eliminate as much lost time and idleness as possible. The industry must come to its own rescue and the public which has a vital stake in the enterprise must co-operate in the industry's program. The Building Congress movement shows the way out locally, regionally and inter-regionally, and if encouraged and co-

ordinated by the American Construction Council will nationalize it and the industry. First in Philadelphia, then in Boston and finally on a more comprehensive scale by the New York Building Congress data on lost time have been assembled in all the building trades and the peaks and depressions in each charted.

It is high time that through such agencies, with the full co-operation of employees—familiar with the turn-over and other special problems of the building industry—and skilled workers in the industry in each locality—the U. S. Department of Labor, Bureau of Statistics, and the American Construction Council when functioning, be provided with accurate data for informing the public as well as all other trades that the basic wage paid skilled building mechanics is not so much brighter than that paid other workers who have steady employment and receive 52 envelopes each year without loss of pay for holidays. Those who receive regular pay regardless of holidays or illness would not relish being docked for Christmas and other important days as are workers in the building trades and in such other trades as are paid only by the hours actually worked, rain or shine, ill or well.

Regular workers also usually receive each year one, or two weeks vacation with pay. But how different it is with the oft none-too-easy job of the construction worker. Instead of a reasonable annual rest period with pay, he gets an enforced leave of absence eight to ten times as long as the usual vacation period and without pay.

Because of the fact that wages actually received are only on the basis of hours actually worked (subject to the whims of some foreman, the caprice of the elements, or to transportation delays) there is insufficient incentive on the part of some employers to eliminate unemployment or

TABLE 2—WAGE RATES AND ANNUAL EARNINGS IN BUILDING TRADES OF PHILADELPHIA

	Hourly Rate	Daily Rate	Theoretic Annual Earnings	Average Annual Earnings
Bricklayers .....	\$1.25	\$10.00	\$2,750.00	\$1,820.00
Stone Masons .....	1.10	8.80	2,360.00	1,628.00
Electrical Workers .....	.90	7.20	2,023.20	1,555.20
Elevator Constructors .....	1.06	8.48	2,372.88	1,831.68
Engineers .....	.90	7.20	2,023.20	1,440.00
Lathers .....	.96	7.68	2,150.40	1,459.20
Plasterers .....	1.77	14.00	3,570.00	2,380.00
Cement Finishers .....	.80	6.40	1,798.40	1,126.40
Painters .....	.80	6.40	1,632.00	1,164.80
Plumbers .....	.90	7.20	1,965.60	1,440.00
Roofers .....	.65	5.20	1,461.00	884.00
Sheet-metal Workers .....	.90	7.20	2,016.00	1,332.00
Steam Fitters .....	.90	7.20	2,023.20	1,296.00
Stone Cutters .....	1.00	8.00	2,240.00	1,440.00
Tile Setters .....	1.00	8.00	2,256.00	1,660.00



on the part of some of those employed efficiently to complete one job and take chances on promptly securing another, especially in seasons or localities where it is known that intelligent foresight is not being exercised to avoid intermittency.

Several leaders of labor in the building construction industry have made the positive assertion to the writer that if they and their workers were convinced that other groups were sincerely co-operating with them to afford them more days in which to work and fewer in which to be idle, they would welcome the opportunity to maintain their efficiency—and would do more!

They have made the candid and almost obvious statement that if they had an actual demonstration over a period of two average years that the unfortunate, unpleasant and expensive circumstances attendant upon idleness would disappear except on holidays for which they lose wages they would voluntarily reduce their hourly wage rate as a compensation for the relief from "fear of unemployment" and be better off each year in spirits as well as in finances.

In addition to the satisfaction to be deprived through such a use of time formerly lost—one thing which when gone can never be replaced—the saving to the building public would be enormous.

In 1920 and 1921 with the co-operation of the Philadelphia building trades and W. S. Hays, later secretary of the National Federation of the Construction Industries, there was made the first study of lost time in the building industry in any given locality. The figures have recently been brought up to date preparatory to another survey and it is expected that contractors and sub-contractors as well as labor will co-operate.

An advance copy of the preliminary report of a Committee to the Philadelphia Building Congress is here abstracted in the hope that the data may prove of value in other localities also and will afford a stimulus for similar studies elsewhere.

In making these calculations, there were first deducted from the 365 days of the year all Sundays, all holidays observed in the trade under consideration, and the number of full days lost through the custom of trade in regard to work on Saturday. What remained was called the number of possible effective working days. From this was then deducted the time lost through unemployment, the time lost—and unpaid for—on the job through delay in the delivery of materials or through other causes for which the worker is not responsible, the average time during which weather conditions prevent work, and the average time lost through illness and absenteeism. The remainder was taken as the average time worked during the year. No deduction was made for the time lost

through labor troubles; the "average days worked per year" represent what a man might expect if he took no part in strikes or lockouts, worked whenever weather permitted and he could get work to do, and had average success in securing employment. The results thus arrived at for the various trades are as given in Table I.

On the basis of these preliminary figures, the average annual income of the building trade workers in Philadelphia can be calculated. Taking the hourly rates paid in the various building trades, as compiled by the National Association of Builders' Exchanges and as representing conditions prevailing Sept. 30, 1922, and applying them to the data concerning average number of days worked in a year, Table II is obtained, in which the theoretic annual earnings represent what the worker would receive if he were employed for the full number of possible effective working days, and the average annual earnings show what he would receive if employed for the average number of days worked per year in his trade.

The table is based on the average number of days worked during the year 1920 but this average will be probably somewhat higher during 1922 due to the abnormal amount of building being done and the favorable weather to December 26. The hourly rate is that of union men; in cases where non-union men are employed the hourly rate may run higher or lower than the figures here given. These figures do not include any bonus which if given varies with each employer.

In only 4 out of the 15 trades considered do the theoretic annual earnings fall below \$2,000 and in only one do they fall below \$1,600. On the other hand the average annual earnings in only one trade rise to \$2,000; and in only two other instances do they reach \$1,800; in nine trades they are below \$1,500.

As stated in the Monthly Labor Review in its conclusion, "The difference between the theoretic and the average annual earnings lends force to Secretary Hoover's statement that in the building trades 'one of the reasons for the constant drive for higher hourly wages is to maintain an adequate annual income and to offset the loss due to intermittent occupation.'" Probably also, it throws some light on the reasons for the fact deplored by Senator Calder, that "American-born young men are no longer entering apprenticeships and learning construction trades from the bottom up, with a view to spending their lives in such work."—*Engineering News-Record*.

A Bill of vital interest to contractors and other employers of unskilled labor has been introduced into Congress by Senator Sterling. It calls for amend-

ment of our immigration laws and appointment of an independent Immigration Board of five members, four to be named by the president. The Secretary of Labor shall be a member ex-officio.

This Board would appoint immigration inspectors and assign them to duty at foreign ports. The examination of immigrants would be completed before they sailed for America, and Ellis Island would become a port of entry rather than a port of disappointment as it has to be today.

Immigration would be based largely on reports which would be rendered by each state to the Board in January, stating the amount of unemployment during the previous year, the kind of industries and occupations in which there was a labor shortage during the same period, and the kinds of immigration especially desired by each state.

The bill provides that not to exceed three-fourths of one per cent. of the total population of the United States may be admitted in any one year, and that the number allowed for any one national or racial group shall not exceed one-fifth of one per cent. of our population.

The Board is allowed to increase or diminish the number to be admitted from any nation or race, provided that in no case shall such number be fixed above 10 per cent. of the number of that nationality residing in this country. American born citizens whose foreign born father or mother belonged to such nation or race may be counted in determining the number of the race in the United States.

Though the bill specifically prohibits the admission of contract laborers, it provides that the Board shall send information to its foreign agents in regard to occupational and other characteristics of immigrants desired in the different states, and that certificates of admission to this country, specifying to what district the immigrant is to go on arrival, shall be used. Before receiving his final papers, the immigrant must purchase a through ticket to the specified destination. That may not be contract labor, but it comes fearfully close to it. The state, rather than the employer, does the contracting; but it is the employer who reports that there is a labor shortage and gives the chap a job when he arrives. On the whole it is a good bill, but it needs patching up in spots.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T. ....Narberth, Pa.  
Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CABINET WORK.

Weiss, George, & Co. ....1211 Mascher St., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy .....Merion Station, Pa.  
Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co. ....133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Contract Waterproofing Co. ....Harrison Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## EXCAVATING.

Croyle, Guy .....Merion Station, Pa.  
McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works.  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....1629 Ludlow St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard .....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1332 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## ROAD WORK.

Croyle, Guy .....Merion Station, Pa.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.  
Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.  
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
Nictown Lane and Powder Mill Road, Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.

## SHEET METAL WORK.

Tinney, Walter H., Co., 63rd and Woodland Ave.

## SHEETROCK (Wall Board)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., & Co. ....10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
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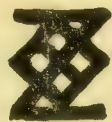
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 7  
February 14, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

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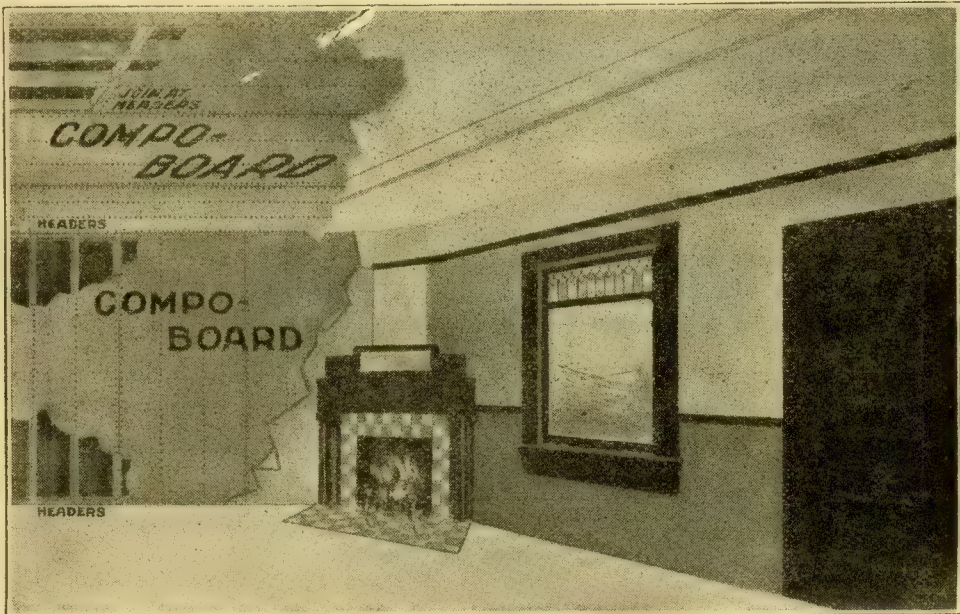
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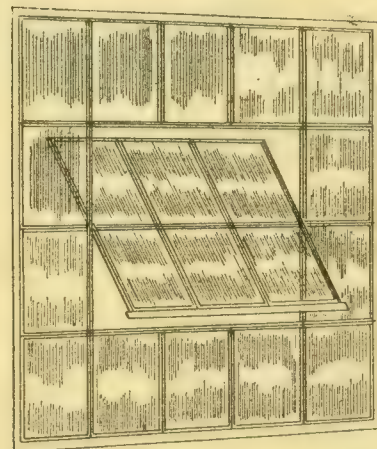
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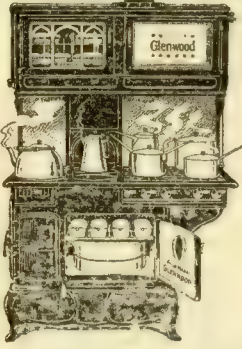
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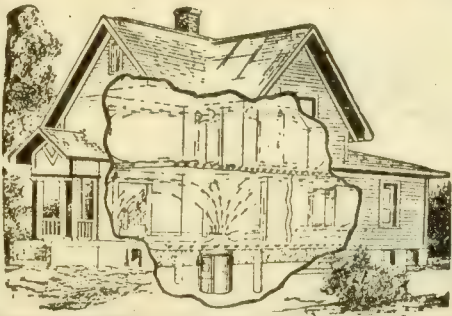
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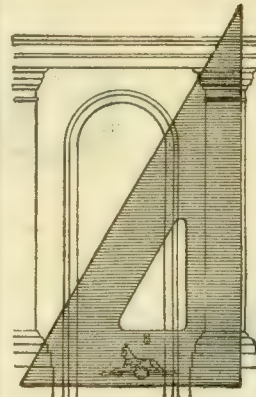
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 7

PHILADELPHIA  
February 14, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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To all points in Canada..... 5.50 a year  
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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### ALL-YEAR DEMAND FOR MATERIALS PROMISES FIVE BILLION DOLLAR BUILDING BOOM FOR 1923

The greatest year of construction activity in American history is in prospect for 1923, according to reports from all branches of the building industry.

Conservative estimates place the probable new building expenditures in all lines for the next twelve months at \$5,000,000,000.

Hitherto unprecedented activity during the fall and winter is cited as the outstanding reason for this 1923 program. In almost all sections of the country, the 1922 construction boom continued through the fall and early winter, resulting in a sustained demand for materials and labor. This action followed the desire of men engaged in building to profit from past experience which has shown that it is better to maintain an efficient working organization intact, than to disband because of the largely imaginative difficulties of winter construction.

Contractors, quick to grasp an opportunity for all-year work, not only completed many jobs that in previous years would have been carried over, but took on new contracts for prompt delivery.

The early days of 1923, therefore, find a heavy demand for steel, cement and other building material. The contractors and builders, displaying newly acquired wisdom, are taking no chances of being

caught with an overload of contracts without materials to build when the first opportunity appears.

The resultant activity is making itself felt all along the line. Railroads are enjoying in the ordinarily slack season a measurable increase in freight traffic. Manufacturers of building materials are being relieved to a certain extent of carrying the tremendous costs of overstocked warehouses with the usual necessity for suspending plant operations.

The movement of stocks without interruption through the winter has enabled manufacturers to keep going because a steady demand was calling for shipments of their products.

This movement, aside from its beneficial effect to the builder at the present time, is seen as a possible means of leveling the first peak load of demand in the spring.

It is noticeable in the advertising of contractors and builders at the present time that they are offering to take contracts with the promise of 60 or 90 day delivery on homes. If these opportunities are taken by prospective home-builders, it will enable contractors to keep the road clear and take care of the predicted influx of tardy planners when the so-called "building season" is in full swing.

Every encouragement should be given to a continuance of the present pace in construction work. The taking of early contracts, purchase, shipment and storage

of materials for building projects will release the heavy grip of peak load demand and unbalanced seasonal activity which have held the American construction industry at its mercy for so many years.

The experience of 1922 and the progress shown thus far in the new year, demonstrate amply the fallacy that any "season" for home building exists. It appears that 1923 will offer definite assurance of these facts which builders have attempted to impress upon the public for years.

If the transportation system can be kept at even keel, and the demands of traffic spread over a twelve months' period instead of approximately seven, while stocks are kept moving from the manufacturer to the job, America's annual building bill can be materially reduced in proportion to the amount of work done. Semi-annual congestion in railroads, affecting building materials, food-stuffs, coal and a great many other basic activities will be cleared up.

That the railroads not only recognize this spreading demand but are planning active representation in the building boom itself, is shown by reports of *The Railway Age* which place the possible construction expenditures by roads at more than \$900,000,000 this year.

This estimate is based upon the actual budgets of 31 roads controlling 40 per cent. of the nation's trackage which show \$387,000,000 set aside for 1923 work.

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Much of this total will go into stations, under-passes, viaducts, bridges, terminals and shops, and general betterments, the need for which has become acute.

The quota of \$5,000,000,000 for all building in the United States is based upon architects' reports to *The Architectural Forum*. This publication received detailed statements from 1,767 architects in all sections of the country and assembled them by type of construction, by states and by districts.

The result assures not only the biggest year for 1923, but that it will exceed 1922—a record breaker in itself—by at least \$1,000,000,000.

Get your materials now!

The report on Interior Building Construction consisting of Metal Lath and Gypsum Plaster on wood supports, jointly submitted by the Associated Metal Lath Manufacturers, Chicago, Ill., and the National Lumber Manufacturers' Association, Chicago, Ill., is probably the most useful and therefore most important report that the Underwriters and Laboratories has made. Architects, builders and the members of the building trades can profit greatly by carefully studying this report.

The use of this material is particularly advantageous for the following positions:

(1) Over heating plant, fuel storage rooms, for covering heat ducts, back of ranges for all buildings, including private residences and duplexes, where equivalent fire protection is not otherwise provided.

(2) On entire basement ceilings of all wood joisted buildings other than private residences and duplexes, except those two stories or less in height outside the fire limits. If the basement is equipped with an approved automatic sprinkler system, the use of metal lath on the basement ceilings is optional.

(3) For the walls and ceilings enclosing public halls or stairs, and on the underside of combustible stair carriages of multiple dwellings, also for division walls between apartments.

(4) On the entire basement ceiling, on walls and partitions enclosing halls or stairs, on the underside of combustible stair carriages, and on main floor ceilings wherever, in stores or factories, living quarters or public assembly are permitted above.

(5) For walls and ceilings of attached garages with wood studs or joists.

(6) As protection for joists, bearing partitions and all other structural wood, except for mill construction, in office buildings, banks, court buildings, passenger stations, museums, libraries, lodge buildings and halls; churches, theatres one story high seating less than 300, schools, colleges, institutions and hotels, asylums, hospitals and nurseries, and in

factory or mercantile establishments over 2 stories high.

The slate, industry, an important source of roofing, blackboards, billiard-table tops, and other more or less essential products, labors under a staggering handicap of waste, states the Bureau of Mines, which has completed a study of the subject. According to Oliver Bowles, mineral technologist of the bureau, in most slate producing districts the waste averages 70 to 90 per cent. of gross production. In one quarry in Vermont an average 16 tons of rock is removed for each ton of good slate.

The term "slate" is applied to fine-grained rock that has a more or less perfect cleavage, permitting it to be readily split into thin, smooth sheets. The term includes materials differing widely in color and having a considerable range in chemical and mineralogical composition.

The more common colors in slates are gray, bluish gray, and black. The reds, various shades of green, and variegated slates are less common, and purple is rare. Yellow brown and buff colors are occasionally found in deposits, but usually they have resulted from weathering, and slates of such colors are not marketable. Slates of certain colors are in demand and command high prices, whereas those of other colors are difficult to sell.

Slate makes such durable and attractive roofing that its use should be greatly encouraged, the Bureau of Mines considers furthermore, its noninflammability as compared with wood adds to its value, for the most frequent cause of dwelling-house fires in the United States is said to be sparks from a chimney alighting on a wood-shingle roof.

Slate suitable for blackboards must be soft and fine-grained. Such slate is obtained from what is known as the "soft-vein" region of Lehigh and Northampton Counties, Pa. This comparatively small area, not over 23 miles long, comprises the best if not the only good blackboard slate deposits in the world.

School slates were once common in America, but their use has greatly declined. Foreign demand is considerable, and most school slates now manufactured are exported. School slate is similar to blackboard slate, and the deposits are largely confined to the same area.

The chief structural slate products are mantels, floor tiles, steps, risers, flagging, skirting board, window sills, lavatory slabs, billiard and other table tops, wainscoting, hearths, well caps, vats sinks, laundry tubs, grave vaults, sanitary ware, refrigerator shelves, flour bins, and dough troughs.

Slate is used widely for purposes where low electric conductivity and mechanical

(Continued on Page 111)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residence**, Overbrook, Philadelphia. Architect, private plans. Owner, Horace J. Davis, 929 Chestnut street, Philadelphia. Stone and brick. Plans in progress. Too early for details.

**Store and Apartments (alts. and add.)**, 1527 Fairmount avenue. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 1 story add., 22x31 feet, slag roof, vapor heating, electric lighting, pine and cement floors, hollow metal skylights. Plans about completed. Architect will take bids in one week.

**Store and Apartments (alts. and add.)**, 244 South Fifty-second street. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, A. Tansman, on premises. Brick, 2 stories add., 30x16 feet, slag roof, hardwood floors, hot water heating, electric lighting, plumbing, tile work, metal ceilings, plate glass. Owner will take general bids in a few days.

**Residence (alts. and add.) and Garage**, 1522 Bainbridge street. Architect, C. Henry Wilson, 2038 Berks street, Philadelphia. Owner, William B. Southern, Twelfth and Spruce streets, Philadelphia. Brick, rear add., 2 stories, 18x42 feet, slag roof, composition and cement floors, hollow tile, elevators, hot water heat, electric lighting, metal lath, iron work. Architect ready for bids due February 21st.

**Operation of Residences**, Rising Sun avenue and Olney avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Davies Brothers, 901 North Thirty-first street, Camden, N. J. Brick, 2 stories, 15x40 feet, slag and tin roof, hardwood floors, hot water heating, electric lighting, tile work, garages in basements, cement work, metal lath. Owners are ready for sub-bids.

**Residences (21)**, Sixty-fourth and Montgomery avenue, Overbrook, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Joseph A. Maloney and Martin McWilliams, 6308 Sherwood road. Stone and brick, 2 stories, 20x35 feet, slate, slag and tin roof, hardwood floors, central steam heating, electric lighting, metal lath, cement work, garages in basements. Owners are taking sub-bids.

**Warehouse**, 642 North Eighth street, Philadelphia. Architects, Stuckert Co., Crozer Building, Philadelphia. Owners, Coca Cola Co., on premises. General interior alterations,

office partitions, plastering, cabinet work, elevator, steam heating, electric work and fixtures. Architect is taking sub-bids.

**Garage**, Vine street, West of Twenty-third street, Philadelphia. Architect, private plans. Owner, name withheld. Brick, 1 story, 108x28 feet, slag roof, cement floors, plumbing, iron work, bond (heating, electric work reserved). C. O. Eddleman, 1627 Sansom street, is taking sub-bids due as soon as possible.

**Repairs to Room No. 452**, City Hall, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property. Metal furniture and new partitions. Owners will advertise for bids in a few days.

**Residences (6)**, Friendship and Edmund streets, Philadelphia. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Raphael Gattis, 7138 Edmund street, Philadelphia. Brick, 2 stories, 15x54 feet, slag roof, pine floors, hot water heating, electric lighting. Owner is taking sub-bids.

**Residences (2)**, Wissinoming avenue and Agumen street, Philadelphia. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Martin Kasparaitie, 1004 Reno street, Philadelphia. Brick, 2 stories, 16x40 feet each, slag roof, pine floors, hot water heating, electric lighting. Plans in progress. Owner will take sub-bids in one week.

**Hanover Playground**, Columbia avenue, Earl and Livingston streets. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Grading, concrete work, paving, surfacing, plumbing and electric work. Owners taking bids due February 15th at noon.

**Residence**, Weigard street, East of Ridge avenue, Roxboro, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Walter J. Schoppe, 10 South Eighteenth street, Philadelphia. Stone, 2 stories, 37x25 feet, slate roof, oak and pine floors (vapor heating, electric work and plumbing reserved), tile and iron work. Architect taking bids due February 15th.

**Office Building**, 5225 Chestnut street, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, W. Edwin Blair, 451 South Sixty-third street,

Philadelphia. Brick, limestone, concrete and steel, 1 story, basement and mezzanine, 110x24 feet, slag roof, cement and maple floors, metal lath, tile and marble work, iron work. Architects taking bids due February 16th.

**Residence**, 536 Pelham road, Germantown, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Louis A. Hirsch, 919 Walnut street, Philadelphia. Brick and stucco, 2 stories, 55x31 feet, wing 11x32 feet, slate roof, oak and pine floors, steam heating, electric lighting, metal lath, tile and marble work, bond. Architect taking bids due February 15th.

**Residences (30)**, 2000 to 2058 Margaret street, \$100,400. Architect, private plans. Owner, Nelson C. Rawley, 2101 South Nineteenth street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, steam heat, electric light. Owner will build.

**Residences (23)**, South side Rockland, West of B street, \$116,000. Architect, private plans. Owner, W. Witte, 5106 North Carlisle street, Philadelphia. Brick, 2 stories, 16x38 feet, (21) 16x26 feet, 13x11 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (11)**, Park and Medary avenues, Philadelphia, \$44,800. Architect, private plans. Owners, J. & A. E. Janke, 6295 North Broad street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hot water heat, electric light. Owner will build.

**Residences and Garages (6)**, South side Mt. Airy, West of Jefferson street, \$11,000 each. Architect, private plans. Owner, J. W. Moffly, Pelham Court, Emlen and Carpenter streets. Brick, 3 stories, 17x12 feet, 23x26 feet, slag roof, hot water heat, electric light, hardwood and cement floors, tile work. Owner will build.

**Pumps and Blowers House**, Northwest Corner Carbon and Tioga streets, \$9,200. Architect, private plans. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. Brick, 1 story, 42x20 feet, slag roof, cement floors, steel sash. Owner will build.

**Residences (17)**, Fifty-fourth and Florence avenue, Philadelphia, \$4,000 each. Architect, private plans. Owners, Joseph Weiner and H. Pepper, 524 Fernon street, Philadelphia. Brick, 2 stories, (1) 16x43 feet, and (16)

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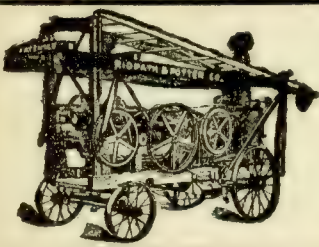
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16x30 feet, 12x12 feet, slag roof, electric lighting. Owner will build.

**Mill**, 1005-07 South Second street, Philadelphia, \$12,000. Architect, David Levy, Real Estate Trust Building, Philadelphia. Owners, Northern Woodworking Co., on premises. Brick, 2 stories, 38x72 feet, slag roof, pine floors, electric lighting. Owner will build.

**Residences (31) and Store**, 5000 to 5060 North Franklin street, \$158,000, and (12) **Residences**, 5039-61 North Franklin street, \$60,500. Architect, private plans. Owner, Harry P. Collins, 230 North Fifty-third street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (3)**, 5541-43-45 North American street, \$4,500 each. Architect, private plans. Owner, William Ingram, 5011 North Sixth street, Philadelphia. Brick, 2 stories, 16x30 feet, 13x10 feet, slag roof, hardwood and pine floors, electric light. Owner will build.

**Garage**, East side American street, South of Olney avenue, \$4,000. Architect, private plans. Owner, William Ingram, 5011 North Sixth street, Philadelphia. Brick, 1 story, 125x18 feet, slag roof, cement floors, electric lighting. Owner will build.

**Offices (add. and alts.)**, 438 North Eleventh street, Philadelphia, \$4,000. Architect, private plans. Owners, Richard De Cou Co., Twelfth and Noble streets, Philadelphia. Brick, 3 stories, 9 feet 6 inches x 16 feet 3 inches, slag roof, electric lighting. Owner will build.

**Residences (2)**, West side Tulip street, North of Tyson street, \$4,000. Architect, private plans. Owner, Daniel J. Gereke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, electric lighting. Owner will build.

**Residences (2)**, West side Marsden street, North of Magee, \$4,000. Architect, private plans. Owner, Daniel J. Gereke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, electric lighting. Owner will build.

**Store and Rooming House (alts. and add.)**, Southwest Corner Twelfth and Master, \$6,000. Architect, private plans. Owner, Herman Seidman, 5009 B street, Philadelphia. Brick, 1 story, 17x13 feet, general alterations. Owner will build.

**Residences (2)**, West side Glenlock street, North of Magee, \$3,800. Architect, private plans. Owner, O. H. Thompson, 6608 Marsden street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pipeless heating, electric lighting. Owner will build.

**Building (repairs)**, Southeast Corner D and Erie avenue, \$3,000. Architect, private plans. Owners, John Maneely Co., on premises. General fire repairs. Owners will build.

**Garages (2)**, South side Greenway avenue, West of Sixty-seventh street, \$2,200 each. Architect, private plans. Owners, George Fink and Anthony Civitarese, 2138 South Sixty-fifth street. Brick, 1 story, 18x102 feet, and 1 story, 30x16 feet and 18x86 feet, slag roof, cement floors. Owner will build.

**Residence (add.)**, 1520 South Twentieth street, Philadelphia, \$2,000. Architect, private plans. Owner, John Parenter, 907 Ernest street, Philadelphia. Brick, 1 story, 14x4 feet, slag roof, electric work. Owner will build.

**Restaurant Pavilion**, Ford and Monument avenue, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Severion di Vito, Eighth and Dickinson streets. Brick, 1 story, 85x57 feet (size of lot) irregular, slag roof, composition floors, hot water heating, electric lighting, tile work, marble wainscoting. Plans in progress.

**Store and Dwelling (alts. and add.)**, Southeast Corner Sixth and Callowhill streets, Philadelphia. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, Mrs. R. Turnoff, on premises. Brick, 3 stories, 19x25 feet, slag roof, pine floors, hot water heating, electric lighting, plumbing, plate glass, flush bulks. Architects taking bids.

**School**, Knorr, Cottage and Gillespie streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth, above Chestnut street, Philadelphia. Lowest bidders: Cramp & Co., Denckla Building, Philadelphia, \$443,931; Ketcham & McQuade, 1029 Brown street, Philadelphia, \$453,756. Heating, McClintock Brothers, 5216 Webster street, Philadelphia, \$45,849. Plumbing, B. A. Hertsch, 7963 Oxford pike, Fox Chase, \$18,733. Electric, Walker-Kepler, 531 Chestnut street, Philadelphia, \$16,807.

**School**, Large, Wakeling, Howarth and Horrock streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth, above Chestnut street. Lowest bidders: McCloskey Co., 1620 Thompson street, Philadelphia, \$442,322; Cramp & Co., Denckla Building, Philadelphia, \$458,002. Heating, McClintock Brothers, 5216 Webster street, Philadelphia, \$45,829. Plumbing, B. A. Hertsch, 7963 Oxford pike, Fox Chase, \$19,320. Electric, Ross Electric Const. Co., Beach and Brown, \$16,545.

**School (add.) (Warehouse and Printing Shop)**, New street, between Front and Second streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Lowest bidders: Kober Const. Co., 34 South Seventeenth street, Philadelphia, \$107,977; George Dobbin, 1020 South Forty-seventh street, Philadelphia, \$108,800. Heating, Aus-

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tin, Gorham & McIlvaine & Co., Inc., 1816 Ludlow street, Philadelphia, \$7,200. Plumbing, Bulman Brothers, Fifth and Cumberland streets, \$5,985. Electric, Ross Electric Const. Co., Beach and Brown streets, Philadelphia, \$3,500.

**Branch Sewers, Philadelphia.** Owners, City of Philadelphia, Bureau of Surveys, City Hall, Philadelphia. Owners taking bids due February 21st at noon at Room 216. Branch Sewers: Gray's avenue, Forty-ninth street to Fifty-first street; Limekiln pike, from Andrews avenue to Walnut lane; McCallum street, Ellet street to Mt. Pleasant avenue. Main Sewers: Pratt street, Seventieth street, Southwest of Lorretta street to Lorretta street, amount appropriated \$10,000. Charles street, Front street to Comly street, amount appropriated \$65,000. Ashdale street, from 171 feet Southwest of Fisher street to Fisher street, amount appropriated \$25,000.

**Residences (10),** Loudon street, between Fifth and Sixth streets, Philadelphia. Architect, Paul Livingston Boyd, 6943 Limekiln pike, Philadelphia. Owner, R. Wallace Troemer, Fifth street and Roosevelt Boulevard. Brick, 2 stories, 15½x40 feet and 18x32 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owner is taking sub-bids.

**Store, Rooming House and Garage,** 2217-19

South street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Mayer Milgram, 2116 South street, Philadelphia. Brick, 3 stories, store, 47x67 feet, depth of building 154 feet, slag roof, cement, pine, maple and composition floors, metal ceilings, mezzanine in store, vapor heating, electric lighting, quarry tile, hollow metal skylights, copper bulks. Plans in progress.

**Store (alts. and add.),** Northwest Corner Fifty-fifth and Kingsessing avenue. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, David P. Dwyer, care of architect. Brick, 1 story, 15½x28 feet, slag roof, electric lighting, interior alterations, plate glass, flush bulks, steel work, metal ceilings. Plans in progress.

**Store (alts. and add.),** 1919 Venango street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Charles W. Spencer, on premises. General alterations and addition. Plans in progress. Too early for details.

**Apartment Buildings (4),** Sixty-sixth avenue and Eighth street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Solid Realty Co., care of architect. Brick. Plans in progress. Too early for details.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

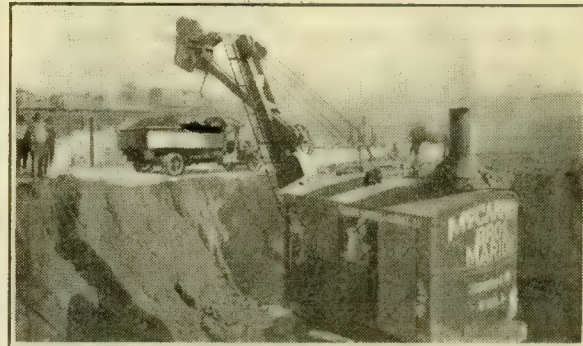
**Sales and Service Building,** 1415 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Lessees, Edward Wilkie Motors Co., 917 North Broad street. Brick, steel, terra cotta, stone and concrete, 4 stories, basement and mezzanine, 37½x160 feet, steam heating, electric lighting, elevators, tile and marble work. Contract awarded to Nelson Pedley Const. Co., Inc., 1615 Spruce street, Philadelphia.

**Building (alts. and add.),** 1226 Ridge avenue, Philadelphia. Architects, M. Macy Stanton and Stanley Potter Stewart, 1524 Chestnut street, Philadelphia. Engineers, Marshall & Pennell, 1524 Chestnut street, Philadelphia. Owners, Parkway Baking Co., on premises. Reinforced concrete, brick and steel, 2 stories, ground floor and basement, 97x87x59 feet, irregular, composition roof, maple and cement floors, metal lath, floor hardener, fire doors, rolled steel sash and skylights, demolition (heating, electric work and plumbing reserved). Contract awarded to J. L. Fawley, 1615 Spruce street, Philadelphia.

**Apartment House,** Forty-sixth and Walnut

streets, Philadelphia, \$900,000. Architect, private plans. Owner, Thomas H. Hargest, 501 North Fifty-second street, Philadelphia. Reinforced concrete, brick and cut stone, 6 stories and basement, 208x124 feet, slag roof, concrete, oak and pine floors, steam heat, electric light, metal lath, tile, marble and terrazzo, hollow tile, elevators, rolled steel sash and skylights, floor hardener, dampproofing, terra cotta. Contract awarded to John R. Wiggins Co., Eighteenth and Cherry streets.

**Building,** 12 to 16 South Marshall street, Philadelphia. Architect, David B. Bassett, 1420 Locust street, Philadelphia. Owners, Quaker City Rubber Co., 624 Market street, Philadelphia. Reinforced concrete, brick and steel, 2 stories, 56x28 feet, slag roof, cement and maple floors, electric light, rolled steel sash, hollow metal doors, bond, iron work, terra cotta. Contract awarded to Frank G. Stewart, 1619 Sansom street.



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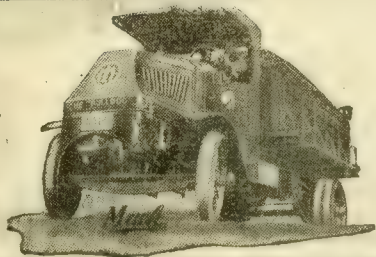
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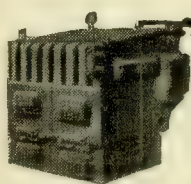
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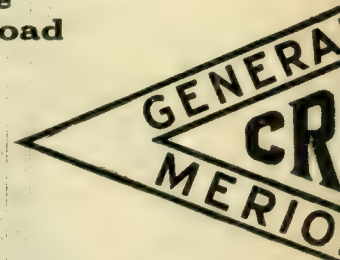
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**Warehouse (alts. and add.),** Southeast Corner Second and Turner streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Keystone Spinning Mills Co., on premises. Brick, reinforced concrete, 2 stories, 60x94 feet, slag roof, cement floors, safety treads, roof ventilators, dampproofing, iron work, bond, tin-clad doors, rolled steel sash, rolled steel skylights. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

**Somerset Sub-station,** Trenton avenue and Somerset street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel, cut stone, 2 stories and basement, 104x83 feet, slag roof, cement floors, marble work, rolled steel sash, bond, waterproofing. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Office Building (add.),** 3446 Walnut street, Philadelphia. Engineer, W. R. Jones, University of Pennsylvania, Thirty-fourth and Spruce streets. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets. Stone and cut stone, 2 stories, slag roof, pine floors, steam heating, electric lighting, metal lath, iron work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Twin Residence,** Lincoln Drive, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, Harry D. Carson, care of architect. Stone

and stucco, 2½ stories, 40x46 feet, slate roof, pine and oak floors, iron work, hot water heating, electric lighting, tile work. Contract awarded to Samuel Harting, 20 East Johnson street.

**Residence (alts. and add.) to Apartments,** 750-52 South Martin street, \$11,986. Architect, C. Henry Wilson, 2038 Berks street. Owner, George W. Smith, 750 South Martin street, Philadelphia. Brick, rear add. 3 stories, 21x16 feet, slag roof, hot water heating, electric light, tile work, plastering, mill work, cement, brick and galvanized iron work. Contract awarded to Charles G. Austin, 2039 Oxford street.

**Residence and Garage,** Oak road, North of Midvale avenue, Philadelphia. Architect, private plans. Owner, Dr. Leroy Walker, 2258 North Thirteenth street, Philadelphia. Stone and whitewash, 2½ stories, 30x42 feet and 22x22 feet, shingle roof, hardwood floors, vapor heating, electric lighting, tile work. Contract awarded to William J. Ryder, 1718 Sansom street, Philadelphia.

**Garage,** 907 to 921 North Watts street, Philadelphia, \$13,000. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Louis J. Kolb, Tenth and Reed streets, Philadelphia. Brick and steel, 1 story, 80x56 feet, slag roof, cement floors, hollow metal skylights, rolled steel sash, electric lighting, steam heating, demolition. Contract awarded to William G. Uhler's Sons, 1909 McKean street.

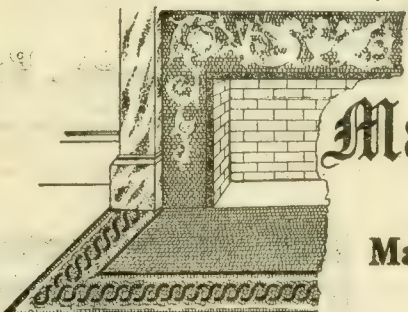
**Ball Room,** Woodside Park, Philadelphia,

\$15,000. Architect, Edward Schoppe, 315 South Fifteenth street, Philadelphia. Owners, Woodside Realty Co., Woodside Park, Philadelphia. Carpentry, mill work, hardware, iron work, composition floors maple floors, electric work reserved), painting. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street.

**Store alts.),** Fifth and South streets, Philadelphia, \$4,370. Architect, Richard H. Smythe, Brooklyn, N. Y. Owners, R. W. Realty Co., Inc., 121 Duane street, New York City. Plastering, carpentry, mill work, hardware, metal work, painting, glazing, heating repairs. Contract awarded to George A. Dugan Co., 200 Fifth avenue, New York City.

**Residence,** Queen Lane Manor, Midvale avenue, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Mrs. Emma Stevens, care of architect. Hollow tile and stucco, 2½ stories, 25½x34½ feet, wing 18x21 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to William J. Ryder, 1718 Sansom street, who is taking sub-bids due February 18th.

**Residence and Garage,** Emlen and Sedgwick streets, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Walter P. Brown, Stephen Girard Building, Philadelphia. Hollow tile and stucco, 2½ stories, 25x42 feet, 1 story, 10x20 feet, shingle roof, hardwood and cement floors, tile work, electric light, vapor heat. Contract awarded to William J. Ryder,



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**Dry Kiln**, Eighty-first and Bartram avenue, Philadelphia. Architect, private plans. Owners, Frederick R. Gerry Co., Thirtieth and Peltz streets. Brick and concrete, 17x29 feet. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Factory (add.)**, 3726-28 North Randolph street, \$12,000. Architect, private plans. Owners, C. H. Boley, on premises. Brick, 2 stories, 38x113 feet, slag roof, steam heat, electric work. Contract awarded to Charles H. Schaefer, Otis Building, Philadelphia.

**Storage Building**, West side American street, North of York, \$8,000. Architect, private plans. Owners, Rex Company, 2411 North American street, Philadelphia. Iron, 1 story, 51x113 feet, cement floors, iron roof. Contract awarded to Harry Brocklehurst, 512 West Norris street.

**Storage Building**, 5601 Vine street, Philadelphia, \$7,000. Architect, private plans. Owners, The Globe Paper & Metal Co., on premises. Brick, 2 stories, 20x96 feet, slag roof, cement floors. Contract awarded to Lewis Rosengarten, 5617 Race street.

**Garages (2)**, East side Mascher street, North of Ontario, \$5,000. Architect, private plans. Owner, William Hoyle, 134 West Allegheny avenue, Philadelphia. Brick, 1 story, irregular sizes, slag roof, cement floors. Contract awarded to A. Winder, 2008 Fairhill street, Philadelphia.

**Store and Storage (alts.)**, 4364 Cresson street, Philadelphia, \$3,300. Architect, private plans. Owner, S. Sigel, 1011 North Fifth street, Philadelphia. General alterations. Contract awarded to Chashick & Chatman, 3109 Dauphin street.

**Storage**, East side Delaware avenue, foot of Bigler, \$13,000. Architect, private plans. Owners, Bisler Linseed Co., Drexel Building, Philadelphia. Brick, 1 story, 60x116 feet, corrugated iron roof, cement floors. Contract awarded to Belmont Iron Works, Twenty-second and Washington avenue.

**Building and Sand Storage House**, Wensley street, West of Delaware River, Philadelphia, \$12,000. Architect, private plans. Owners, Penn Brick & Tile Co., 719 Bulletin Building, Philadelphia. Brick, 1 story, 80x106 feet, storage, iron, 1 story, 62x42 feet, and belt conveyer, cement floors. Contract awarded to Cemprod Eng. & Const. Co., 171 Madison avenue, New York.

**Garage (fire repairs)**, East side Thirtieth street, North of Race, \$8,000. Architect, private plans. Owners, F. G. Voigt & Son Co., on premises. General fire repairs. Contract awarded to E. E. Hollenback, 1804 Brandywine street.

**Apartment Buildings (2)**, South side Spring Garden, West of Thirty-sixth street, Philadelphia, \$14,000. Architect, private plans. Owner, Michael L. Pollock, 4831 North Twelfth street, Philadelphia. Brick, 4 stories, 37x64 feet, slag roof, electric lighting. Contract awarded to Henry Friedman, 1814 North Twenty-eighth street.

**Mill Building (add. and alts.)**, Northeast Corner Walnut and Pechin streets, \$7,000. Architect, private plans. Owners, T. Kenworthy & Brothers, on premises. Brick, 1 story, 19x25 feet, slag roof, electric lighting. Contract awarded to William H. Eddleman & Son, 453 Green Lane.

**Apartment**, South side Spring Garden, West of Thirty-sixth street, \$7,000. Architect, private plans. Owner, Michael L. Pollock, 4831 North Twelfth street, Philadelphia. Brick, 3 stories, 18x64 feet, slag roof, hot water heating, electric lighting, hardwood and pine floors. Contract awarded to Henry Friedman, 1814 North Twenty-eighth street.

**Residences (3)**, West side Fifty-seventh street, North of Arch, \$4,500 each. Architect, private plans. Owner, William C. Dean,

243 South Felton street, Philadelphia. Brick, 2 stories, 16x28 feet, 12x16 feet, slag roof, hot water heating, electric lighting. Contract awarded to Dean & Elliott, 243 South Felton street.

**Garage**, 1333-35-37 Olive street, Philadelphia, \$4,500. Architect, private plans. Owner, D. Henwood, 240 North Sixteenth street, Philadelphia. Brick, 1 story, 51x67 feet, slag roof, cement floors, electric work. Contract awarded to F. B. Davis & Son, 240 North Sixteenth street, Philadelphia.

**Residences (22)**, east side Ardleigh, north of Abington, \$4,000. Architect, private plans. Owner, William G. Gruhler, 219 High street, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, hot water heat, electric light, hardwood floors, tile work. Contract awarded to William J. Gruhler, 219 East High street, Philadelphia.

**Garages**, South side Spring Garden street, West of Thirty-sixth, \$3,000. Architect, private plans. Owner, Michael M. Pollock, 4831 North Twelfth street, Philadelphia. Brick, 1 story, 18x125 feet, slag roof, cement floors. Contract awarded to Henry Friedman, 1814 North Twenty-eighth street.

**Shop**, Southeast Corner E and Luzerne streets, \$2,500. Architect, private plans. Owners, Joseph H. Collins & Son, on premises. Brick, 1 story, 18x22 feet, slag roof, pine floors, electric light. Contract awarded to H. P. Werner, 3245 Germantown avenue, Philadelphia.

**Factory (add.)**, 4050 Main street, Philadelphia, \$4,000. Architect, private plans. Owners, Sykes Brothers, Hancock and Huntingdon streets, Philadelphia. Brick, 1 story, 111x16 feet, slag roof, pine floors, electric work. Contract awarded to Henry P. Schneider, 3713 York road.

**Residence and Store (alts. and add.)**, 1330 Columbia avenue, \$2,700. Architect, private plans. Owners, Malvern Brothers, 1316 Columbia avenue, Philadelphia. Brick, 1 story, 31½x21 feet, slag roof, pine floors, electric work. Contract awarded to J. Frank Grant, 1625 North Thirteenth street.

**Garage**, 1627 Willington street, Philadelphia, \$3,500. Architect, private plans. Owner, William Boland, 1628 North Sixteenth street, Philadelphia. Brick, 1 story, 23x77 feet, slag roof, cement floors, electric work. Contract awarded to Tony Olivier, 1518 Adams street, Philadelphia.

**Garage (add.)**, North side Luray street, East of Fifth street, \$3,400. Architect, private plans. Owner, Charles Balstro, Fifth and Wyoming avenue, Philadelphia. Brick, 1 story, 34x41 feet, slag roof, cement floors, electric work. Contract awarded to Fred Peccari, 560 Rising Sun avenue.

**Residence and Store (alts.)**, Northwest Corner Fifteenth and Vine streets, \$2,600. Architect, private plans. Owner, Milton A. Stern, 1422 Vine street, Philadelphia. General alterations. Contract awarded to Laskey & Reese, 241 West Duncannon street.

**Building (alts. and add.)**, 1441 Point Breeze avenue, \$2,250. Architect, private plans. Owner, A. Nashona, on premises. Brick, 2 story add., 12x18 feet, general al-

terations. Contract awarded to Max Kapalowitz, 2421 South Darien street.

**Residence and Store**, 1217 North Fifty-second street, Philadelphia, \$3,000. Architect, private plans. Owner, Joseph Goldfarb, on premises. Brick, 1 story, 3x13 feet, slag roof, pine floors. Contract awarded to Kier Const. Co., Franklin Trust Building, Philadelphia.

**Residence and Store (alts.)**, 2521 Christian street, \$2,000. Architect, private plans. Owner, Samuel Cohen, 2519 Christian street, Philadelphia. General alterations. Contract awarded to Sanberg & Naulty, 104 North Sixth street.

**Ice House (alts.)**, 1150 Germantown avenue, Philadelphia, \$2,500. Architect, private plans. Owners, Union Ice Co., on premises. General alterations. Contract awarded to F. Crompton & Bro., 4614 Oakland street.

**Warehouse (alts.)**, 241 Chestnut street, Philadelphia, \$2,000. Architect, private plans. Owners, Charles G. Edwards Co., on premises. General alterations. Contract awarded to A. P. Fraim, 319 Market street, Philadelphia.

**Store and Factory**, 2119-21 Arch street, Philadelphia, \$18,000. Architect, David Levy, Real Estate Trust Building, Philadelphia. Owner, Louis Frankel, 717 Walnut street, Philadelphia. Brick, 2 stories, 36x99 feet, slag roof, steam heat, electric light. Contract awarded to S. H. Levin, 1631 North Fifth street, Philadelphia.

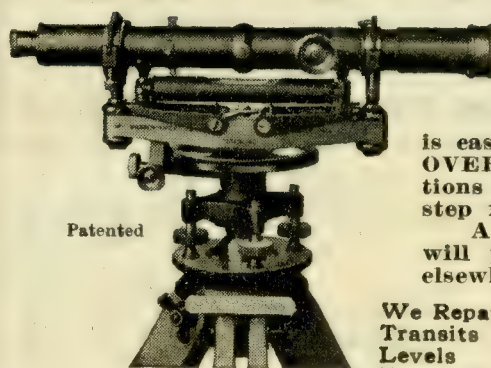
**Two-Family Residences and Stores (2)**, East side Broad street, 320 feet South of Champlott avenue, \$14,000 each. Architect, private plans. Owners, Fred and Lena Bradbeck, 3247 North Twenty-seventh street, Philadelphia. Brick, 3 stories, 16x65 feet, slag roof, oak and pine floors, electric lighting, store fixtures, tile work. Contract awarded to Jacob Hansen, Afton street, Fox Chase, Philadelphia.

**Dry Kiln**, East side Thirteenth street, North of Pike street, \$5,000. Architect, private plans. Owners, Charles F. Felin & Co., York road and Butler street, Philadelphia. Brick, 1 story, 22x64 feet, slag roof, cement floors. Contract awarded to William J. Morrison, 3230 Howell street, Philadelphia.

**Residence and Store (alts.)**, Southwest Corner Twenty-eighth and York streets, \$2,600. Architect, private plans. Owner, Elka Ozerowitz, 723 South Fourth street, Philadelphia. Brick, 2 stories, 14x8 feet, slag roof, general alterations. Contract awarded to Cohen & Boguslasky, 907 Vine street.

**Storage Building (repairs)**, 1336 Kater street, \$2,000. Architect, private plans. Owner, Joseph H. Kass, Finance Building, Philadelphia. General fire repairs. Contract awarded to A. P. Lucker, 5136 Parkside avenue, Philadelphia.

**Warehouse**, Rising Sun avenue and Venango street, Philadelphia. Architects, Bolton & Taylor, Essex Building, Newark, N. J. Owners, Tomkins Brothers, on premises. Reinforced concrete and brick, 2 stories, 109x39x53 feet, irregular, slag roof, cement floors, iron work, electric lighting, rolled steel sash, iron work. Contract awarded to Albert H. Moorshead, 67 Laurel street, Phila-



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## PENNSYLVANIA Construction News

**Residence**, Swarthmore, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Mrs. Martha Blessing, Swarthmore, Pa. Stone, hollow tile and stucco, 2½ stories, electric lighting, hardwood floors. Architect will build.

**Restaurant (alts.)**, 325 Market street, Harrisburg, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, F. F. Davenport Lunch Co., Harrisburg, Pa. Changing 3 upper floors into apartment hotel, steam heating, electric lighting, hardwood floors, plastering, plumbing, dumb waiters. Plans in progress.

**School Building**, Scranton, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Holy Rosary Roman Catholic Church, care of Rev. Dr. Moylan, Scranton. Brick, steel and concrete, terra cotta, 3 stories, 80x150 feet, slag roof, concrete floors, steam heating, electric lighting. Plans in progress.

**Chapel and Auditorium**, White's Ferry, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Michael's Industrial School, White's Ferry, Pa. Brick and terra cotta, 2 stories, 60x93 feet, and tower, slate roof, electric lighting. Plans in progress.

**Church (alts.)**, Sunday School and Parsonage, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, First Methodist Episcopal Church, Rev. B. Hart, 110 North Beaver street, York, Pa. Stone, 1 story and basement, 130x170 feet. Too early for details.

**Lodge and Club, Garage**, Red Lion, Pa., \$30,000. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Howard Sheeler, Red Lion, Pa. Brick, 3 stories, 32x100 feet, slag roof, concrete and hardwood floors, vapor heat, electric light, tile and marble work, roof ventilators, rolled steel skylights. Plans in progress.

**Residence and Garage**, Lincoln Highway, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, Ellis S. Lewis, York Trust Co., 21 East Market street, York. Stone (local), 2½ stories, 30x47 feet, 1 story, 25x35 feet, slate roof, hardwood floors, steam

heat, electric light, tile work. Plans in progress.

**Stores and Apartments (4)**, Baltimore street, Hanover, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, C. Y. Myers, Hanover, Pa. Brick, 3 stories, 80x100 feet, composition roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights, store fixtures, waterproofing, terra cotta, dampproofing. Plans in progress.

**Store and Apartment**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, name withheld. Brick, 3 stories, 50x110 feet, slag roof, concrete floors, hot water heat, electric light. Plans in progress.

**Residence**, President street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, C. Meyers, Hamilton Apartments, Lancaster, Pa. Brick and cinder block, 2½ stories, 28x42 feet, hardwood floors, slate roof, hot water heat, electric light, tile work. Plans in progress.

**Church (rebuilding)**, Carlisle, Pa. Architect, not yet selected. Owners, St. Patrick's Roman Catholic Church, care of Rev. Francis J. Welsh, Carlisle, Pa. General fire repairs and rebuilding. Architect not yet selected. Too early for details.

**Orphanage**, near Pottsville, Pa., \$300,000. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owner, Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Brick and steel, 3 stories. Plans in progress. Too early for details. Architect will take bids in one month.

**Bungalow**, Bryn Athyn, Pa. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, John Eckstein Beatty, Real Estate Trust Building, Philadelphia. Frame, 1 and 2 stories, 30x28 feet, shingle roof, pine floors, electric lighting, stone and cement fireplaces. Plans in progress.

**Residences (6)**, Springfield, Pa. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick and stucco, 2 stories, 18x45 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans completed.

**Sunday School (alts. and add.)**, Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Milton Presbyterian Church, Milton, Pa. Stone, 1 story and balcony, 15x50 feet. Plans in progress.

**Residences**, Latches lane and Lancaster road, Ardmore, Pa. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Edward Frimmell, 715 Arch street, Philadelphia. Stone, 2½ stories. Plans in progress. Too early for details.

**Stores (3) and Apartments**, Ardmore, Pa. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Harris, care of architect. Brick and limestone, 2 stories, 50x58 feet, slag roof, hardwood floors, metal ceilings, flush bulks, tile work, hot water heating, electric lighting, marble work. Plans in progress. Architect will be ready for bids in one week.

**Twin Residence**, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owners, J. Yaffe and A. Blumberg, 14 South Seventh street, Reading. Probably hollow tile, 35x70 feet. Too early for details.

**Store and Apartment (alts.)**, 58 East Market street, Wilkes-Barre. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre. Owners, Welles Estate, care of architects. Brick, 3 stories, 44x76 feet. Plans in progress.

**Market House and Arcade**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owners, Broad and Main Streets Business Men's Association, care of F. Roycebusch, Bethlehem, Pa. Brick, 1 story, 100x100 feet, slag roof, concrete floors, steam heat, electric light, roof ventilators, rolled steel sash, floor hardener. Preliminary plans in progress.

**Store Front**, North Hampton street, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, R. Schleckter, Allentown, Pa. Plate glass, concrete work, hardwood floors, interior alterations. Plans in progress.

**Store and Apartment**, Allentown, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Mr. Coken, care of architect. Brick, 3 stories, 21x62 feet, slag roof, pine floors, hot water heat, electric light, plate glass, copper work. Plans in progress.

**Home**, Nazareth, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owners, W. R. Beitel Children's Home, care of R. C. Stewart, Drake Annex Building, Easton, Pa. Brick, 3 stories, 60x60 feet, slag roof, pine floors, hollow tile, metal lath, roof ventilators, dampproofing, hot water heat, electric light, tile work, fire doors. Plans in progress.

**Bank (alts.)**, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owners, Dime Savings & Trust Co.,

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**Sunday School**, Wyoming, Pa. Architect, T. H. Atherton, Jr., Coal Exchange Building, Wilkes-Barre, Pa. Owners, Wyoming Methodist Episcopal Church, Board of Trustees, care of architect. Brick, 2 stories, 60x60 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

**Residence**, Kingston, Pa. Architect, T. H. Atherton, Jr., Coal Exchange Building, Wilkes-Barre. Owner, G. Eersanbach, 24 West River street, Wilkes-Barre, Pa. Brick, 2½ stories, 25x60 feet, shingle roof, hardwood floors, tile work, electric light. Plans in progress.

**Residence**, Kingston, Pa. Architects, Schroeder & Smith, Weitzenkorn Building, Wilkes-Barre. Owners, Mr. Nolan, care of architects. Frame and stucco, 2½ stories, 30x38 feet, slate roof, pine floors, hot air heat, electric light. Plans in progress.

**Residence**, Kingston, Pa. Architects, Schroeder & Smith, Weitzenkorn Building, Wilkes-Barre. Owner, care of architects. Stucco, 1 story, 28x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Bank (add.)**, Nanticoke, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, First National Bank, Charles Shea, president, Nanticoke, Pa. Brick and steel, 1 story, 30x7 feet, asphalt and gravel roof, brick floors, electric light, marble work, granite front, bronze sash. Plans in progress.

**Fire Hall**, Elkwood, Pa. Architect, not yet selected. Owners, Elkwood Fire Co., care of D. Bentzel, New Cumberland, Pa. Brick, 2 stories, 30x80 feet. Work contemplated.

**School**, Kingston, Pa. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School Board, Mr. Evans, secretary, Kingston. Brick, fireproof, 2 stories, 8 rooms, slag roof, hardwood floors (heating, electric work and plumbing reserved), hollow tile, roof ventilators. Plans in progress.

**Store and Apartment**, Old Forge, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, Martin Memollo, Old Forge, Pa. Brick, 55x44 feet, slag roof, pine floors, electric lighting, plate glass. Plans in progress.

**Church**, McAdoo, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Slavoc Roman Catholic Church, Rev. J. M. Borovec, McAdoo, Pa. Brick, steel, 1 story and basement, 60x108 feet, slate roof, hardwood and tile floors, vapor vacuum heat, electric light, tile work, metal lath. Plans in progress.

**Residence**, Clay street, Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, David Taub, 417 Quincy avenue, Scranton, Pa. Frame and stucco, 2½ stories, 30x43 feet, asbestos roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Bank**, Honesdale, Pa. Architects, Davis & Lewis, Union Bank Building, Scranton, Pa. Owners, Wayne County Savings Bank, care of Mr. Fowler, Honesdale, Pa. Fireproof construction, 1 story and mezzanine, 55x90 feet, hollow tile, steel, wood and slag roof, electric light, tile, marble and terrazzo work, roof ventilators, rolled steel skylights, vault, bank fixtures, limestone front. Plans in progress. Architects will be ready for bids in one week.

**Residence**, Scranton, Pa., \$25,000. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owner, J. O. Christian, Taylor and Pine streets, Scranton, Pa. Frame, 2½ stories, 45x52 feet, vapor heat, electric light, shingle roof, hardwood floors, tile work.

Plans in progress. Architect will be ready for bids in one week.

**Bank**, Duryea, Pa. Architect, H. C. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Peoples Savings & Trust Co., E. T. Daniels, Taylor, Pa. Limestone, brick, hollow tile, 1 story, 28x70 feet, Johns Manville roof, tile floors, vapor heat, electric light, tile work, roof ventilators, bank fixtures, vault. Architect taking bids due February 28th.

**Grade School**, St. Cloud and Walnut streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Allentown School Board, Allentown, Pa. Fireproof, 3 stories, 38x200 feet, slate roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing and damp-proofing, hot air heat, electric light, metal lath, tile work, skylights, iron stairs, ornamental iron work. Owners ready for bids.

**Store, Office and Loft Building**, Main street, Wilkes-Barre. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre. Owner, Louis Levy, care of architect. Brick and stone, 3 stories, 34x85 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, hollow tile, tile, marble and terrazzo work, rolled steel skylights, metal ceilings, waterproofing and dampproofing, ornamental iron work. Architect will be ready for bids next week.

**Residence (alts.) to (4) Apartments and Garages (5)**, 432-34 River street, Wilkes-Barre, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, R. D. Bennett, California, Maryland. Hollow tile, 1 story, 29x40 feet, slag roof, hardwood and concrete floors, hot water heat, electric light, tile work, partitions. Architect will be ready for bids in one week.

**Garage and Auto Show Room**, George street, York, Pa., \$20,000. Architect, W. H. Swartz, 515 Prospect street, York, Pa. Owners, York Motor Co., D. P. Klinedinst, Security Building, York. Brick, 1 story, 38x240 feet, slag roof, concrete floors, electric light. Owner will take sub-bids.

**Garage and Show Room**, West and Market streets, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, J. Y. Burgard, 551 West Market street, York, Pa. Indiana limestone, brick, reinforced concrete, 3 and 4 stories, 75x230 feet, slag roof, hardwood floors, electric light, hollow tile, elevators, tile and marble work, rolled steel sash, fire doors, dampproofing, ornamental iron work. Architect taking sub-bids.

**Garage**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Hale Motor Co., Ardmore, Pa. Stone, brick and

concrete, 1 story, 145x60 feet, slag roof, concrete floors, roof ventilators, steam heating (oil burning), electric lighting. Architect is taking sub-bids.

**Store Building (alts.)**, Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Carl Lichtenfeld, Berwyn, Pa. New front, plate glass, metal bars, oak and hardwood floors, plate mirrors, cabinet work, new partitions, fire doors, tile, marble and terrazzo work, electric lighting, hot water heating. Plans completed. Owner is ready for sub-bids.

**Apartment and Store**, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, Elmer Heinbach, Hotel Allen, Allentown, Pa. Brick, 3 stories, 20x130 feet, Barber asphalt roof, maple floors, hot water heat, electric light, tile work, copper work, plate glass, metal ceilings. Owner will sub-let.

**Apartment and Store**, Allentown, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, Thomas R. Wasser,

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219 North Lumber street, Allentown, Pa. Brick, 3 stories, 16x110 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, plate glass, copper work, metal ceilings. Owner will sub-let.

**Residence**, Bywood, Pa. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, H. J. Williams, care of architects. Stone, 2½ stories, 33x43 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work, cement work. Owner will take general and sub-bids. Plans may be obtained from architects' office.

**Residence**, Union avenue, Bala, Pa. Architect, Allen B. Decker, 113 Bryn Mawr avenue, Bala, Pa. Owner, name withheld. Stone, 2½ stories, 49x29 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile and marble work, bond, iron work, waterproofing. Architect taking bids due February 19th.

**Residence**, Drexel Hill, Pa. Architect, Dr. Chauncey A. Helick, 1601 Oxford street. Owner, Joseph A. Campbell, Esq., care of architect. Stone, 2½ stories, 36x32 feet, slate roof, hardwood floors, tile work (heating, electric work and plumbing reserved). Architect taking bids due February 18th.

**Residence**, Wynnewood, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Brick and plaster, 2½ stories, 52x26 feet (irregular), tile roof, oak and pine floors (heating and plumbing reserved), electric lighting, tile work, bond, iron work. Architect taking bids due February 15th.

**Office Building**, Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Washington I. Smith, Berwyn, Pa. Penn building block and plaster, 1 story, 20x30 feet, slag roof, hardwood floors, hot air heating, electric lighting, terrazzo work, plate glass, metal screens. Owner taking bids due February 20th.

**High School**, Chestnut and Penn streets, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, C. Harvey Kehm, secretary, Board of Directors, Borough of Pottstown, Pa. Reinforced concrete, steel, brick and cut stone, 3 stories, 218x76 feet and 94x92 feet, composition roof, cement and pine floors, hollow tile, roof ven-

tilators, dampproofing, iron stairs, iron work, floor hardener, bond, hollow metal doors, terrazzo work, metal lath, electric light, steam heating. Owners taking bids due February 27th.

**Manufactory and Power House**, Keplers, Northampton County, Pa. Architects, Lockwood & Greene Co., 101 Park avenue, New York City. Owners, Binney & Smith, 41 East Forty-second street, New York City. Reinforced concrete, brick and steel, 4 stories, 80x100 feet, and 1 story, 40x41 feet, wing 18x11 feet, Barrett roof, cement and granolithic floors, hollow tile, iron work, iron stairs, rolled steel sash, metal lath. Architects taking bids due February 15th.

**Residence**, Glenside, Pa. Architect, private plans. Owner, Allan L. Grammer, 5147 North Sydenham street, Philadelphia. Frame and stucco, 2½ stories, 30x40 feet, shingle roof, hardwood floors, electric light, tile work (heating reserved). Owner taking bids due February 15th.

**Residence (alts. and add.)**, Fort Washington, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, W. M. Caskey, Seventieth avenue and City Line, Oak Lane. Masonry, plastering, carpentry, mill work, shingle roof, hardware, painting, tile work (heating, electric work and plumbing reserved). Architect taking bids due February 15th.

**Cow Barn**, Dallas, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, W. F. Newberry, care of architect. Hollow tile and stucco, 2 stories, 30x70 feet, asbestos shingle roof, concrete floors, electric light, stable equipment, floor hardener. Architect taking bids due February 15th.

**High School**, Bridgeport, Pa. Architect, H. Courcy Richards, 618 Chestnut street, Philadelphia. Owners, Board of Education, School District, Bridgeport, Pa. Lowest bidders: Victor Gondos, Franklin Trust Building, Philadelphia, \$98,300; John R. Wiggins Const. Co., Eighteenth and Cherry streets, Philadelphia, \$101,000. Heating and ventilating, American Heating & Ventilating Co., 200 North Fifteenth street, \$10,261. Plumbing, Crisman & Quilman, Norristown, Pa., \$5,150. Electric, Crisman & Quilman, Norristown, Pa., \$1,850.

**School**, Troy, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Troy School Board, W. R. Croman, secretary, Troy, Pa. Brick, 2 stories, 265x110 feet, slate roof, hardwood and cement floors, steam heating, electric lighting, metal lath, hollow tile, safety treads, roof ventilators, skylights, waterproofing, dampproofing, iron stairs, ornamental iron work. Architects taking bids due March 5th.

**Home**, Middletown, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Pennsylvania Home, I. O. O. F., Middletown, Pa. Reinforced concrete, cut stone, castone, brick and steel, 3 stories and basement, 299x38 feet, (2) wings, 154x33 feet, slag and slate roof, cement and composition floors, hollow tile, roof ventilators, iron work, iron stairs, bond, hollow metal doors, rolled steel sash, tile, marble and terrazzo work, metal lath. Lowest bidders: Shamokin Lumber & Const. Co., Shamokin, Pa., \$309,000; J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia, \$369,500.

## Pennsylvania Contracts Awarded

**Gymnasium**, Fountain Hill, Pa., \$18,684. Architect, A. J. Bibighans, 530 Hamilton street, Allentown, Pa. Owners, Fountain Hill School Board, J. M. Stehly, 1055 Seneca street, Bethlehem, Pa. Brick, concrete, steel,

1 story and basement, 50x100 feet, concrete roof, blower system heating, electric lighting, steel sash. Contract awarded to Garber & Cissel, 12 West Fourth street, Bethlehem, Pa. Plumbing to C. H. Green, 425 Wyandotte street, Bethlehem, \$1,535. Heating and ventilating to F. F. Speck Const. Co., Allentown, \$1,950. Electric to A. C. Dullenkoff, Allentown, Pa., \$650.

**Convent**, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem. Owners, Sts. Simon and Jude Parish, Rev. E. Stapleton, Bethlehem, Pa. Brick, 3 stories, 28x60 feet, metal tile roof, hardwood floors, vapor heat, electric light. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

**Store and Loft**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, H. H. Cohen, care of architect. Frame, 2 stories, 20x50 feet, slag roof, pine floors, electric light. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre.

**Country Club (add.)**, Dallas, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, Irem Country Club, care of architects. Frame, stucco, 1 story, 23x80 feet and 24x40 feet, shingle roof, steam heat, electric light, metal lath, pine floors. Contract awarded to Shepherd Const. Co., Miners' Bank Building, Wilkes-Barre, Pa.

**Conservatory and Green House**, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, John Jacobs, Merion, Pa. Brick, 1 story, 20x20 feet, marble floors, tile work, glazing. Contract awarded to King Const. Co., Harrison Building, Philadelphia.

**Residence (fire repairs)**, Montgomeryville, Pa., \$15,000. Architect, private plans. Owner, Ralph T. Sentner, Montgomeryville, Pa. Carpentry, mill work, painting, glazing, plastering, asbestos roof, oak and pine floors. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

**Residence**, Swarthmore, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Hugh Denworth, Lansdowne, Pa. Contract awarded to Adolph Korn & Co., 1718 Sansom street.

**Peabody High School**, Margaretta, Beatty and Highland avenue, Pittsburgh, Pa. Architect, Edward B. Lee, Chamber of Commerce Building, Pittsburgh. Owners, Board of Education, George W. Gerwig, secretary, Office of the Superintendent, Fulton Building, Pittsburgh. Brick, reinforced concrete, cut stone and steel, 2 stories and basement, 302x61 feet and 148x24 feet, composition roof, linotile, cement and maple floors, hollow tile, elevators, safety treads, metal weather strips, waterproofing, terra cotta, iron work, bond, kalamein doors, rolled steel sash, tile, marble and terrazzo work, metal lath. Contract awarded to P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, \$559,750.

## New Jersey Construction News

**Y. W. C. A.**, Hanover street, Trenton, N. J. Architect, not yet selected. Owners, Trenton Y. W. C. A., 138 East Hanover street, Trenton. Work contemplated.

**Two-Family Residences (2)**, Trenton, N. J. Architect, L. W. Slack, St. Regis Theatre Building, Trenton, N. J. Owner, L. W. Slack, St. Regis Theatre Building, Trenton. Frame and stucco, 2 stories, 20x46 feet, tile roof, hardwood floors, steam heat, electric light. Plans in progress.

**Residence**, Morris Heights, N. J. Architects, William W. Slack & Son, St. Regis Theatre Building, Trenton. Owner, Mr. A. F.

## PUBLIC SALES

We have purchased 122,000 pairs U. S. Army Munson last shoes, sizes 5½ to 12, which was the entire surplus stock of one of the largest U. S. Government shoe contractors.

This shoe is guaranteed one hundred per cent. solid leather, color dark tan, bellows tongue, dirt and waterproof. The actual value of this shoe is \$6.00. Owing to this tremendous buy, we can offer same to the public at \$2.95.

Send correct size. Pay postman on delivery or send money order. If shoes are not as represented we will cheerfully refund your money promptly upon request.

**NATIONAL BAY STATE SHOE COMPANY**

296 Broadway, New York, N. Y.



Robertshaw, Morris Heights, N. J. Hollow tile and stucco, 2½ stories, 30x40 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Residence (alts. and add.),** Flemington, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Norman Landis, Flemington, N. J. Metal lath, stucco, 2½ stories, 30x30 feet, hardwood floors, tile work, plumbing, general interior and exterior alterations. Plans in progress.

**Residence,** Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Charles Slack, care of architects. Hollow tile, stone, stucco, 2½ stories, 30x40 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Residence,** Avon, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, H. R. Shields, Flemington, N. J. Frame, 2½ stories, 27x36 feet, slate roof, hardwood floors, metal lath, electric lighting. Plans in progress.

**Residence,** Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Howard Updike, care of architect. Frame, 2½ stories, 26x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Dining Hall,** Morris Plains, N. J., \$216,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, State Hospital, Morris Plains, N. J. Brick, hollow tile, structural steel, 5 stories, 30x60 feet, composition and slate roof, composition floors, fan system heating, electric light, metal lath, rolled steel sash, fire doors, freight elevators, hollow tile, waterproofing and dampproofing, iron stairs, ornamental iron work. Plans in progress.

**Residence,** Avon, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Mrs. H. Shield, Flemington, N. J. Frame, 2½ stories, 30x35 feet, slag roof, hardwood floors, electric light. Plans in progress.

**Cow Barn (alts.) to Dormitory,** Woodbine, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Colony for Feeble-Minded, Mr. Center, Woodbine, N. J. General interior alterations, shingle roof, composition floors, electric light, metal lath. Plans in progress.

**Residence,** Riverton, N. J. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, J. D. Eisele, Riverton, N. J. Frame and stucco, 2 stories, 36x50 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Architect taking bids due February 15th at 2 P. M. (Heating, plumbing, electric work and fixtures, tile work, screens, road grading and decorating reserved.)

**Cottage,** Point Pleasant, N. J. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owner, Dr. Eveleen A. Doure Doure, 4107 Baltimore avenue. Frame, 2½ stories, 34x43 feet, shingle roof, hot air heating, electric lighting. Owner is taking general bids.

**Parkway School and Auditorium,** Ewing Township, Mercer County, N. J. Architect, R. A. Schuman, 202 State street, Trenton, N. J. Owners, Ewing Township Board of Education, C. W. Latham, care of architect. Brick, 1 story and basement, 115x127 feet, slag roof, pine and hardwood floors, steam heat, electric light (heating, plumbing and electric work reserved), metal lath, safety treads, roof ventilators, rolled steel skylights, bond, concrete stairs, waterproofing and dampproofing. Architect ready for bids.

**School,** Blenheim, N. J. Architect, Harry Armstrong Hill, Broad Street Bank Building, Trenton, N. J. Owners, Gloucester Township

Board of Education, Gloucester, N. J. Brick and steel, 1 story, 78x66 feet, shingle roof, cement and pine floors, iron work, floor hardener, bond, hollow metal sash, metal lath (heating, plumbing and electric work reserved). Owners taking bids due February 15th.

**Administration Building,** Hightstown, N. J. Architects, Rich & Mathesius, 320 Fifth avenue, New York City. Owners, Peddie Institute, Hightstown, N. J. Brick, steel, cast stone, granite and bluestone, 3 stories and basement, 41x62 feet, (2) wings 31x60 feet, slag roof, concrete, oak and granolithic floors, dampproofing, caulking, iron work, iron stairs, hollow metal doors and sash, tile, marble and terrazzo work, metal lath (heating, plumbing, ventilating and electric work separate bids). Owners taking revised bids.

**Junior High School,** Cadwallader street, Trenton, N. J. Architect, Ernest Sibley, Palisades, N. J. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton School Board, R. C. Belville, secretary, Trenton, N. J. Brick, steel, fireproof, 2 stories, 280x410 feet. Lowest bidders: General, C. J. Smith Const. Co., 202 Academy street, Trenton, \$778,000. Electric, A. W. Bensel, Atlantic City, N. J., \$27,514. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$50,777. Plumbing, E. G. Woolfolk & Co., 15 West Thirty-eighth street, New York, \$98,458.

**Elementary School,** Phillipsburg, N. J. Architect, E. H. Wenzelberger, 3 Centre Square, Easton, Pa. Owners, School Board, care of Alfred Case, secretary, Phillipsburg, N. J. Architect selected. Too early for details.

## New Jersey Contracts Awarded

**Store (alts. and add.),** Broadway and Pine streets, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, William L. Hurley, on premises. Concrete, cut stone, brick, granite and steel, 4 stories and basement, 80x28 feet, slag roof, cement floors, dampproofing, terra cotta, iron work, rolled steel sash, tile, marble and terrazzo work, metal lath. Contract awarded to Laurence R. Hurley, Bulletin Building.

## Miscellaneous Construction News

**Administration Building,** Wilmington, Del. Architects, associate, W. T. Thompson, 342 Madison avenue, New York, and Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Y. W. C. A., Dr. H. J. Stubbs, chairman Building Committee, 1204 Delaware avenue, Wilmington, Del. Reinforced concrete, brick, steel, cut stone and granite, 5 stories and basement, 140x87 feet, slag roof, concrete, corktile and maple floors, hollow tile, elevators, metal weather strips, waterproofing, iron work, iron stairs, bond, fire doors, rolled steel sash, rolled steel skylights, tile and marble work, steam heat, electric light. Contract awarded to Smyth Const. Co., 826 Orange street, Wilmington.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 5, 1923. Sealed Proposals will be opened in this office at 3 P. M., February 26, 1923, for furnishing and planting trees, shrubs and flowers on the site of the U. S. Marine Hospital No. 82, Tanner's Creek, Norfolk, Va., in accordance with the specification and drawings, copies of which may be obtained from this office, or from Superintendent of Construction at the site, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 100)

strength are required. Electrical slate should be strong, and of such quality that it can be cut and drilled without scaling; it must be free of magnetite and of veins of low-resistance minerals.

The earliest reference to the use of slate for roofing probably is the construction of a chapel roof at Bradford-on-Avon, England, in the eighth century. Slates were used to cover old castles at Carnarvon and Conway in North Wales during the twelfth century. A slate-roofed castle at Angers, in France a famous modern slate-mining center, dates to about the twelfth century.

Probably the oldest slate quarry in the United States is in the Peach Bottom district at the Pennsylvania-Maryland line, from which slate was taken in 1734. Active slate quarrying is now confined to the States of Maine, Maryland, New York, Pennsylvania, Vermont and Virginia. The chief production is from the Lehigh district of Pennsylvania. The Peach Bottom district, which extends from York and Lancaster Counties across the line into Harford County, Md., has produced considerable slate. The active Vermont district lies in Bennington and Rutland Counties and extends into Washington County, New York. The Maine slate deposits occur in Piscataquis County about the center of the State. Slate occurs in several distinct deposits in Virginia, but operations are now conducted only on the Arvon belt of Buckingham and Fluvanna Counties.

After a careful study of the waste problem from all angles the conclusion has been reached by the Bureau of Mines that the efforts of the quarryman should be devoted to waste elimination rather than to waste utilization problems. Considerable interest has been directed toward the activities of a company organized in Wales for the purpose of manufacturing useful products from the tremendous waste heaps of the Pantdreniog, Penrhyn, and Deniorwic slate quarries. The waste dumps controlled by the company are estimated to contain 200,000,000 tons of slate. Claims have been made that waste slate may be used in



the manufacture of brick, pottery, roofing tile, glass, paint, distempers, putty, metal polish, abrasive soap, insulators, molded rubber goods, asphalt and Portland cement. It is claimed that the finest powders collected in dust chambers may be used for toilet and tooth powders. Considerable quantities are sold for dusting coal mines to prevent explosions of coal dust.

### NEW METHODS OF MEASURING SAND

*New Method Being Tested Likely to Increase Reliability of Concrete Work, and Decrease Cost*

#### MAY EFFECT LOWER SAFETY FACTOR

The reliability of concrete construction is likely to be increased, and the cost in some cases reduced, by the application of a newly-developed method of measuring sand which is now being tested at the Bureau of Standards of the Department of Commerce. The method has been termed the "inundation method" and consists of measuring sand in a container which has been partly filled with water before the sand is put in, so that when the sand is in the water is up to the top and the sand completely soaked.

The volume occupied by a given amount of sand when shoveled into a measuring device varies with the moisture content of the sand; the difference in measured volume between dry and moist sand being usually from 10 to 15 per cent. and occasionally running as high as 50 per cent. But it is found that if the sand is completely soaked or "inundated" uniform measuring results can be obtained no matter how much the original moisture content may have varied.

A rich concrete is not necessarily stronger than the concrete the contractor intended to make, for the sand has brought in some water in addition to that which is added on purpose; and if this extra water is not allowed for and the amount of water added correspondingly decreased the concrete will contain too much water. It will be sloppy, and, when set, will not be dense enough to give the necessary strength.

It is hoped that with the inundation method it may be possible to specify concrete by the strength required rather than by arbitrary proportions. The contractor can then find the proportions of the materials he is using that will give the requisite strength and can adhere closely to these proportions. The result will be a concrete whose proportions are more nearly what they were intended to be, and with which a lower factor of safety can be used.

Many a man would do a better job if he didn't know about putty.—Ex.

### FINDS SMALL HOUSES CAN USE EIGHT-INCH BRICK WALL

That eight inch brick walls can be used in one and two family houses having walls under thirty feet high was one of the conclusions reached in a recent extensive investigation of building codes by the Building Code Committee of the Department of Commerce. This conclusion was reached as a result of careful analysis of building codes, of a series of fire tests conducted at the Bureau of Standards, and of a series of strength tests conducted at the same institution. It is expected that this recommendation will result in a substantial saving in construction cost, as the present building codes usually require thicker walls than this. Exception must, of course, be made in regions liable to earthquake shock.

Beginning in July, 1921, the Building Code Committee of the Department of Commerce has been studying and comparing building codes from all over the country as applied to small houses. The Bureau of Standards has been co-operating closely with them and has furnished much of the experimental work on which the findings of the committee are based.

Its work is now completed and is embodied in a publication entitled "Recommended Minimum Requirements for Small Dwelling Construction." This publication can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 15 cents a copy.

The book begins with a discussion of the origin of the committee and its methods of working. Then some of the more important of its findings are discussed. This is followed by a standard building code which covers the minimum requirements. It is written in such form that it may be adopted without change in wording either as a building code or as an amendment to existing codes. It is intended to serve as a guide and a standard in the formation of local building codes.

The latter part of the book is taken up with an extensive detailed discussion of the recommendations made and the data on which they are based. It is freely illustrated and contains much information of value to architects and builders.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

### THE DAWN OF A PROSPEROUS YEAR

THE year 1923 opens for the building industry a vista of good and profitable business throughout the year. Present indications point to as prosperous year as 1922, if not better. Buildings of all kinds are needed. The housing situation has not been caught up with and will not be for several years to come. The demand for small apartments continues quite active, even in the smaller towns this type of house is very popular. On the other hand, a great many people in our large cities who have always lived in apartments are going out into the suburbs as home owners.

Based upon a survey it has just completed, the Copper and Brass Research Association estimated the total building construction required for 1923 as follows:

Schools .....	\$1,540,000,000
Apartment Houses .....	1,253,000,000
Dwellings .....	940,000,000
Hotels .....	851,000,000
Industrial Buildings .....	827,000,000
Office Buildings .....	804,000,000
Hospitals .....	595,000,000
Churches .....	530,000,000
Public Buildings .....	328,000,000
Public Garages .....	162,000,000

\$7,830,000,000

To complete such a vast amount of building construction during the year 1923, presupposes that the entire shortage, plus the normal increment be carried out in 1923 and that we shall enter 1924 with a clean building slate.

It will be beyond the material and labor resources of our country to carry out such an extensive building program to a conclusion in 1923, even should the financial resources be available. Two-thirds, or about \$5,000,000,000 seems to be a conservative estimate of the building that will be possible in our country for this year.

Conservative forecasts reveal an enormous prospective volume of building construction in nearly every section of the country. There is no builder in the good old U. S. A. who should not be busy every day of 1923.—*Building Age*.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building news magazine this side of Manhattan Island.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co.,  
Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop, 1520 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T., Narberth, Pa.  
Mitchell Bros., 2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy, Merion Station, Pa.  
Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co., Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co., 133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Contract Waterproofing Co., Harrison Bldg., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## EXCAVATING.

Croyle, Guy, Merion Station, Pa.  
McCarrick Bros., 3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## FENCES.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co., 316 N. 3rd St., Phila.  
Wayne Iron Works, Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Thos. F. Gibson, Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros., 44 N. 5th St., Phila.  
Miller, Henry M., 46 N. 2nd St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros., 44 N. 5th St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## GRATES.

Pralatt Equipment Co., Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros., 3138 N. 24th St., Phila.  
Riddle, Wm. H., 1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co., 2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.  
Richardson & Boynton Co., 1332 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H., 27th and Diamond St., Phila.  
Fitzgerald, J. J., & Co., 2nd and Butler Sts., Phila.  
Ketcham, O. W., 121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co., 1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W., 18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
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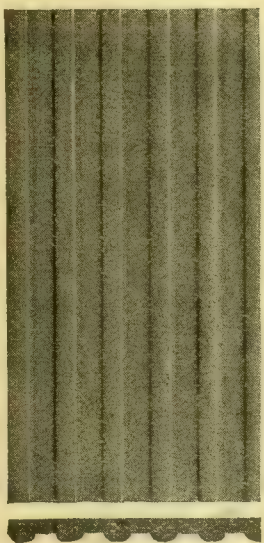
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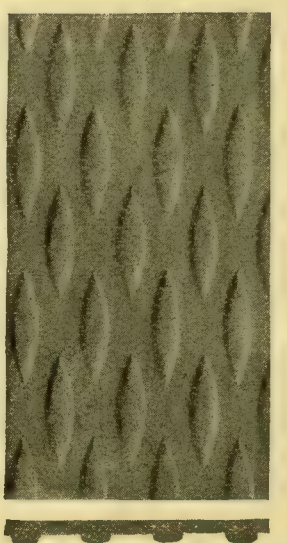
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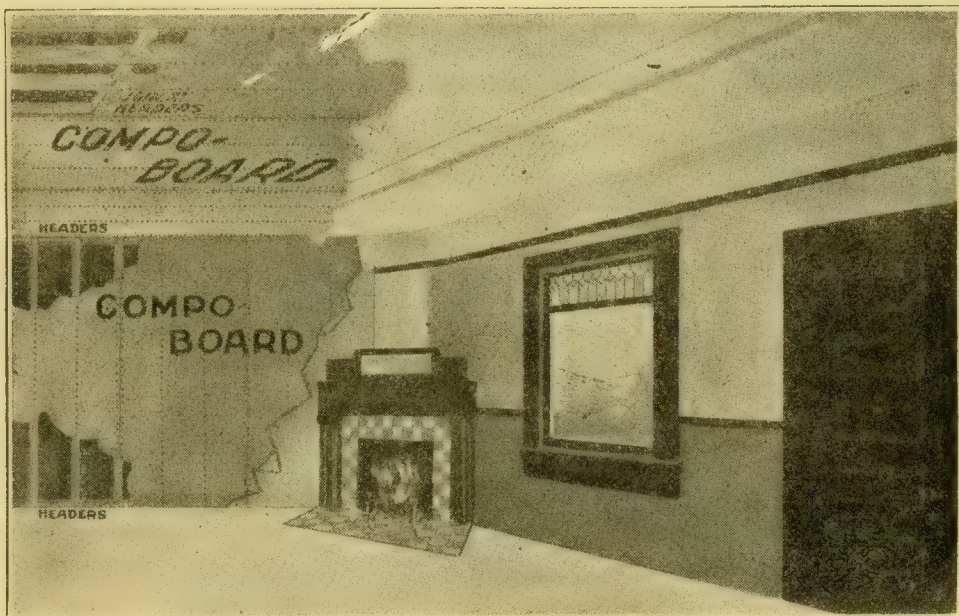
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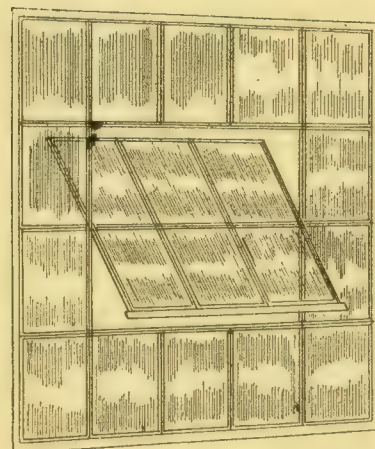
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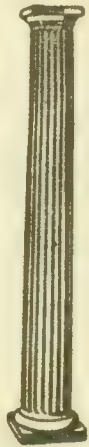
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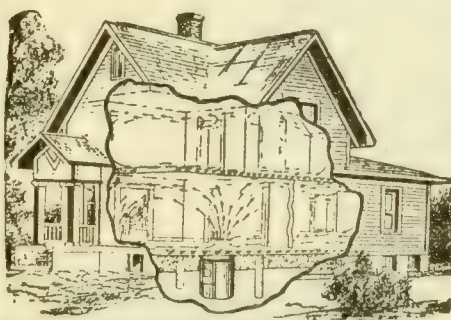
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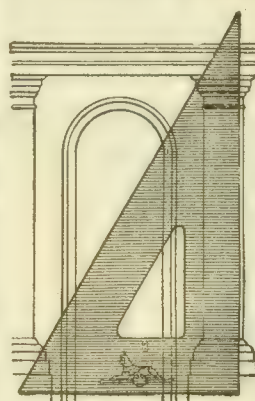
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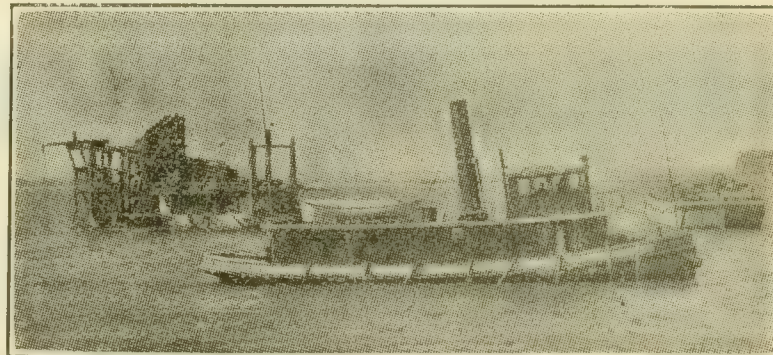
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 8

PHILADELPHIA  
February 21, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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## As The Editor Sees It



### CITY SURVEYING—ITS PROBLEMS AND IMPORTANCE

(By A. MALKIN, Civil Engineer, Detroit, Mich.)

Reprint from Lawyer and Banker

In city surveying there are two distinct phases: The first is the original establishment of property lines and the second, the re-establishment of the original property lines.

In establishing the original property lines subdivision layouts are made which consist of the division of farm land into blocks accessible on all sides to streets or alleys. These streets and alleys are deeded to, and become the property of the municipality in which the subdivision is to be included. These blocks are further subdivided into smaller parcels each abutting on a street. The parcels are called lots and the dimensions of a lot measured along the street it abuts are termed its frontages.

The boundaries of blocks which are also the boundaries of the public streets and alleys are established by the placing of monuments at each and all of the breaks in the boundary line which is at the point of intersection of the two straight lines forming the break. The subdivision of the block into lots is done in a similar manner. The types of monuments used are of stone, iron and wood.

The most common type of monument used is the wood stake, one to two inches

square and from eighteen to twenty-four inches long. In many instances round iron pipes from one to one and one-half inches in diameter are required to be used for locations of street corners or block boundary lines.

When the subdivision has been staked out a plot showing the dimensions and locations of principal monuments and sizes of lots together with the bearings of streets and alleys is filed with the proper authorities of the state, county and municipality in question. When approved, the layout goes on record and marks the completion of the first phase of city surveying.

The second phase begins where the first leaves off. In attempting to re-establish the original property lines, it is important to note that the controlling factor is the location of the original monuments witnessing the boundary lines regardless as to whether they agree with the dimensions of the recorded plat plan.

To understand the principal problems confronting the engineer in this phase of surveying, it is well to analyze the growth and development of a city. From a surveyor's viewpoint a city may be looked upon as the outgrowth of an original farm settlement formed along a highway which acts as its only or principal street. To this nucleus the continuous additions of subdivisions form its growth. While the city in its endless development has its corresponding variations in the care with

which new subdivisions are incorporated, we can safely for our purpose divide it into two stages.

First, when the municipality is too small to supply the proper supervision for the purpose of examining and correcting the proposed new subdivisions; second, when the old more or less haphazardly built up city becomes sufficiently important to afford competent men to pass on its proposed additions (and in many large cities there is a city planning commission which arranges all proposed new subdivisions to facilitate the future expansion of the city).

During the first period of a city's growth, there is a very important factor which tends to upset if not nullify the work of the original layout of the various subdivisions. That factor is the relative cheapness of property when measured by the standard of foot frontage. This comparative lack of value causes laxity on the part of those who are the pioneers of the city. Very few if any of them would pay for the services of an engineer if he was at all to be conveniently procured.

In a number of non-monumented American cities, where all traces of original monuments of a subdivision are gone (and that is only a short time in the history of a city) there are two main sources by which the engineer is expected to read the past. The first is the public streets and alleys. The second, existing

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old buildings some of which date to the time when the original monuments must have been existent.

The boundaries of city streets may be determined from the curbs which separate the roadway from the sidewalks. This roadway is, whenever possible, located in the center of the street, leaving on either side equal widths for sidewalk purposes. When adjoining subdivisions do not provide for continuous straight streets and when the variations are small the city lays its curbs so that the roadway is kept straight leaving unequal distances between curbs and street boundary lines. Thus any reference that might have been of some use in locating the block boundary lines from curbs is destroyed. The location of existing old time buildings would have been a proper key to the situation were it not for the carelessness of the pioneer city builders in whose interest the law of adverse possession is in force.

In addition to the above two causes which contribute to the complications of re-establishing boundary lines there has been a third and most essential condition which unfortunately reflects also upon the original surveyor of the subdivision. Up to very recently and even now in only a few states surveyors are required to be registered by the state which tests their ability before unloading them upon the public. In the past, therefore, there were two grades of men in practice the intelligent and reliable practitioner who would not render his services unless the compensation enabled him to give it the necessary care and employ the proper help. However, the demand of real estate operators for lower charges who did not grasp the importance of a correct layout as a duty to the future property owner and the city as a whole caused some men unfit by their education and experience to enter the field of surveying. In many instances while the principal of a firm of engineers was a man of proper training and experience he was forced to employ an organization below his standard due to the low compensation received.

These inaccurate surveys did much towards the creation of what is now termed discrepancies which are shortages and surpluses according to the actual measurements in the field as compared with the dimensions of the original recorded plats.

As an illustration of the above we have recently been called upon to survey seven adjacent lots which form a part of an old subdivision in the outskirts of the city. On record were two survey plats made subsequent to the original layout of the subdivision. These plats did not agree with each other nor with the original and all three had practically no relation to the actual measurements in the field. Upon investigating the situation we

found that the ground was first staked out in accordance with a proposed layout which was subsequently changed before it was placed on record. A second staking out was made in accordance with a new layout which was duly recorded. However, the owner of the subdivision refused to pay for the removal of old stakes relating to the first survey so that at the present time there are two sets of stakes causing confusion in determining the property lines.

It can readily be seen that when the city lays its streets according to this cross information and when this section is built up and all possible reference to old stakes destroyed, it will require a superman to determine the boundaries of the property and yet there seems to be no attempt to correct the description in the various abstracts of title to the property at a time when there is yet a possibility of straightening the matter out.

Another instance where a shortage of seven inches in a block caused a great deal of trouble including court action and financial loss to the builder was brought to us for final certification.

According to the description in the abstract covering this property, a set of plans were drawn by an architect for an important apartment building which was duly approved by the city authorities. The property in question is located on a corner so that the foundation was laid out in relation to the two streets and the rear alley. When the footings were completed an unjunction was granted the adjacent property owner restraining the builder from encroaching on his property. A survey was made and it was found that there is a shortage in the block and in view of the fact that all existing buildings and fences indicate that the lots were all measured from the other side of the block, this corner property owner was forced to take what was left between the last property line and the street line.

In the above case if the abstract during its various examinations of title would have had its description of property corrected and certified to by an engineer it is probable that the shortage might have been traced and recorded as belonging to some other lot. In any event, the present owner would have known exactly what he was buying, paying only for the actual frontage instead of an imaginary one, and would have finally been spared a great deal of inconvenience and loss of time and money.

In a recent survey of an important business frontage in a small town near Detroit we found the block to be two feet longer than the total recorded frontage for that block. In this instance, it was an interior lot, one side of which was bounded by a building whose frontage measured the total recorded frontage to

(Continued on Page 127)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residence**, Wayne avenue and Hortter street, Philadelphia, \$15,000. Architect, Karl F. Otto, 3 North Nineteenth street. Owner, Mrs. W. B. Davenport, 1315 Colwyn street, Philadelphia. Stone, 2½ stories, 29x42 feet. Plans in progress.

**Residences (2)**, 1925-27 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Charles T. Cresswell, 2122 Locust street, Philadelphia. Brick, 4 stories, 35x50 feet, general alterations. Plans in progress.

**Residences (45)**, Erdrich and Welsh road, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owners, Mt. Zion Baptist Church, Philadelphia. Brick and stucco, 2 stories, 16x35 feet, asbestos roof, pine floors, hot air heating, electric lighting, cement work. Plans about completed. Will be ready for bids in one week.

**Church**, Erdrich street and Welsh road, Philadelphia. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owners, Mt. Zion Baptist Church, care of architect. Brick, 40x96 feet, slate roof, pine floors, hot water heating, electric lighting. Plans in progress.

**Residence and Garage**, Queen Lane, Philadelphia. Architects, Richard R. Neely and E. William Martin, 2126 Pine street. Owner, Howard Stringer, care of architects. Brick and stucco, 2½ stories, 30x37 feet, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress. Ready for bids in one week.

**Club House (alts. and add.)**, location withheld. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Hollow tile, plastered, 1 story, 30x50 feet, slag roof, pine floors, electric lighting, rolled steel sash, mill work. Plans in progress. Architect will be ready for bids in three weeks.

**Residences (122)**, Sixty-sixth avenue, Sixty-seventh avenue, Ogontz avenue, and Twentieth street and Uber street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank D. Williams, Sixty-sixth and Ogontz avenue, Philadelphia. Brick, 2 stories, 16x40 feet, 15x39 feet, 16x32 feet and 18x30 feet, slag, slate and tin roof, hardwood floors, hot water heating, electric lighting, garages in basement, cement work, metal lath. Owner is ready for sub-bids.

**Residences (60)**, Akron street, between Pratt and Bridge streets, Philadelphia. Architect, private plans. Owners, Smith & Schmunk, 800 West Erie avenue, Philadelphia. Brick, 2 stories, 16¼x34 feet, slag, tile and tin roof, hardwood and composition floors, hot water heating, electric lighting, tile work, garages in basements. Owners ready for sub-bids.

**Residences (21)**, Fifty-sixth street, North of Berks street, Wynnefield. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, name withheld. Brick and stone, 2 stories, 16x50 feet, slag and tile roof, hardwood and cement floors, hot water heating, electric lighting, tile work, metal lath, garage in basements. Architect is taking sub-bids.

**Stores and Apartments (8), Apartment House (10), Store Building, and Residences (22)**, Walnut street, Fifty-sixth and Walnut streets, Fifty-sixth street and Sansom street, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, Dore Construction Co., 1218 Chestnut street, Philadelphia. Brick, 3 stories, 26x52 feet, (1) 3 stories, 18x60 feet, (10) 3 stories, 22x62 feet, and (22) 16x40½ feet, slag and imitation tile roof, hardwood floors, metal ceilings, metal bulks, plate glass, fire towers, tile and marble work, hardwood floors, hot water and steam heating, electric lighting. Owners will build.

**Residences (50)**, Fifty-second and Lebanon avenue, Philadelphia, \$9,000 each. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, Harry Goldstein, 921 North Forty-third street, Philadelphia. Brick, 2 stories, 16x42 feet, slag and tin roof, hardwood floors, hot water heating, electric lighting, tile and marble work, garages in basement. Owner is ready for sub-bids.

**Residences (7)**, Sixty-eighth avenue, between Seventeenth and Smedley streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, John J. Bateman & Son, 5138 Wayne avenue, Philadelphia. Brick, 2 stories, 20x35 feet, slate and slag roof, hardwood floors, hot water heating, electric lighting, metal lath, tile work, cement work, metal lath, garages in basements. Owners taking sub-bids.

**Store and Apartments (add.)**, Fifty-eighth and Chester avenue. Architects, Richard R.

Neely & E. William Martin, 2126 Pine street. Owner, Mr. Cline, care of architect. Brick, 18½x25 feet, slag roof, stair work, hot water heating, electric lighting. Architects will be ready for bids in a few days.

**Store and Storage Building**, Twenty-third and South streets, Philadelphia. Architects, Richard R. Neely and E. William Martin, 2126 Pine street. Owner's name withheld. Brick, 2 stories, 25x60 feet, steam heating, plate glass, plumbing. Ready for bids in a few days.

**Church**, Thirteenth and Ruscomb streets, Philadelphia. Architects, Ritcher & Eiler, Reading, Pa. Owners, Muhlenberg Memorial Church, care of Rev. C. P. Swank, 4927 North Camac street, and Paul Hoft, chairman of Building Committee, 1119 Wyoming avenue, Philadelphia. Ready for bids.

**Municipal Building**, Germantown avenue and Haines street, Germantown. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of City Property, Department of Public Works, C. H. Caven, 216 City Hall, Philadelphia. Brick, cut stone, concrete and steel, 3 stories, 122x74 feet, slag roof, cement and monolithic floors, metal lath, rolled steel sash and skylights, tin-lined doors, bond, iron work (heating, electric work and plumbing separate bids), dampproofing, terra cotta. Owners taking bids due February 28th.

**Stores and Apartments (11)**, East side of Broad street, North of Rockland street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. H. Waldow, Widener Building, Philadelphia. Brick, 3 stories, 16x67 feet, (2) 18x67 feet, slag roof, hardwood, pine and composition floors, iron work, cut stone, flush bulks, plate glass, hollow metal skylights, tile and marble work, metal lath, hot water heating, electric lighting. Architect taking bids due February 26th at noon.

**Stanfield Playground (alts.)**, Front and Lombard streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Estate of Richard Smith, care of Fidelity Trust Co., 325 Chestnut street, Philadelphia. Brick, cut stone and steel, 3 stories, 68x54 feet, slag roof, concrete and pine floors, waterproofing, iron work, steam heating, elec-

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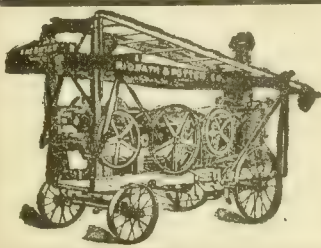
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tric lighting, metal lath, tile and marble work. Owners taking bids due February 26th.

**Garages (8)**, Overbrook, Philadelphia. Architect, Charles M. Wells, Rutledge, Pa. Owner, J. V. Ramsden, 2115 North Sixty-third street, Philadelphia. Brick, 1 story, 100x20 feet, metal partitions, slag roof or Carey composition roof, reinforced concrete floors, steam heating, electric lighting. Owner is taking bids.

**Home**, Southwest Corner Broad and streets, Philadelphia. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, P. B. O. E., Philadelphia Lodge, No. 2, Philadelphia. Brick, concrete, limestone and steel, 14 stories, 198x164 feet, Spanish tile and slag roof, cement floors, metal lath, tile and marble work, tin-clad and kalamein doors, terra cotta. Architects taking bids due March 7th.

**Residence (alts. and add.)**, Marshall and Norris streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Carl Sachs, Esq., Real Estate Trust Building, Philadelphia. Architects taking bids due February 26th.

**Store Building (alts. and add.)**, Seventeenth and Ludlow streets. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Showell Fryer Co., 1517 Chestnut street, Philadelphia. Architect taking bids due February 26th.

**Stores (2) and Apartments**, Southwest Corner Broad and Dickinson streets. Architects, R. R. Neely and E. William Martin, 2126 Pine street, Philadelphia. Owner, G. W. Fehr, care of architects. Brick, 2 stories, 18½x32 feet, slag roof, pine floors, hot water heating, electric lighting, plate glass. Architects taking bids.

**Park (improvements)**, Juniata Park, "H," Cayuga, "L" street and Frankford Creek, Thirty-third Ward, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. General improvements and erecting (2) retiring rooms. Owner taking bids due February 28th.

**Main Building**, Brown's Farms, Forty-first Ward, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Charities and Correction, 592 City Hall, Philadelphia. Lowest bidders: George H. Evans, Inc., 109 North Thirteenth street, Philadelphia—Items A, \$27,372; B, \$26,353; C, \$23,541; D, \$22,968. Albert Zellfelder, 1324 Walnut street, Philadelphia—Items A, \$32,370; B, \$31,680; C, \$28,182; D, \$27,586. Chancellor Day, 3503 Decatur street, Holmesburg, Philadelphia—Items A, \$32,887; B, \$29,599; C, \$28,813; D, \$28,510. Electric, Walker Kepler, 531 Chestnut street, \$554, \$524. Plumbing, Bulman

Brothers, Fifth and Cumberland streets, \$2,866. Heating, Joseph W. Breen, Wyalusing avenue and Fallon street, \$1,632, \$1,442.

**Hanover Playground**, Earl, Livingston and Columbia avenue. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, City Hall. Lowest bidders: Item A, Bowden Const. Co., 1935 Chestnut street, Philadelphia, \$28,660; Mundy Paving & Const. Co., 228 South Alder street, \$28,700. Item B, L. J. Conan, 133 North Vodge street, \$22,437.50. Electric, J. W. Kelleher, 3101 Spring Garden street, \$573. Plumbing, Mundy Paving Co., 228 South Alder street, \$1,043.

**Rooms Nos. 450, 452 and 454**, City Hall, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of City Property, Bureau of Public Works, 216 City Hall. Owners taking bids due February 28th.

**Residences and Stores (6) and Residences and Garages (25)**, Forty-sixth, Baltimore avenue, Larchwood avenue and Milville street, \$252,000. Owner, Harry Bobb, 6232 Cedar avenue, Philadelphia. Brick, 2 stories, various dimensions, electric light, hot water heat, hardwood and pine floors, tile work. Owner will build.

**Residences and Garages (16)**, South side Johnson street, East of Chew, and East side of Chew street, South of Johnson, \$73,500. Architect, private plans. Owner, John S. Wurtz, Land Title Building, Philadelphia. Brick, 2 stories, (15) 15x29 feet, 12x11 feet, and (1) 17x40 feet, slag roof, hot water heat, electric light, hardwood, pine and cement floors. Owner will build.

**Tender Shop (alts.)**, Southeast Corner Eighteenth and Hamilton streets, \$40,000. Architect, private plans. Owners, Baldwin Locomotive Works, 500 North Broad street, Philadelphia. Plastering, cement work, carpentry, mill work, general alterations. Owner will build.

**Residences (3), Garages (2)**, Second and Clarkson avenue, \$10,800. Owner, Nathan Litman, 1597 North Fifty-second street, Philadelphia. Brick, 2 stories, 18x38 feet, 17½x44 feet, slag roof, electric work. Owner will build.

**Residences (2)**, 7319-21 Claridge street, Philadelphia, \$5,000 each. Architect, private plans. Owner, Charles Fruman, 7320 Bingham street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, hardwood and pine floors. Owner will build.

**Residences (2)**, North side Gilham street, West of Bingham, \$3,500 each. Architect, private plans. Owner, James McBride, 2348 North Howard street, Philadelphia. Brick, 2

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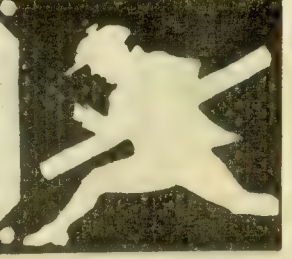
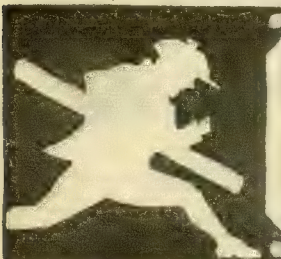
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stories, 16x37 feet, slag roof, hot water heating, electric lighting, oak and pine floors. Owner will build.

**Store and Storage (add.),** 133 North Eleventh street, Philadelphia, \$4,500. Architect, private plans. Owner, William Lechler, 3705 Germantown avenue, Philadelphia. Brick, 1 story, 16x50 feet, slag roof, electric lighting. Owner will build.

**Residence and Garage,** South side Tabor road, East of St. Vincent, \$4,700. Architect, private plans. Owner, Paul Schmidt, 1862 East Wensley street, Philadelphia. Frame, 2 stories, 36x32 feet, oak, pine and cement floors, electric lighting. Owner will build.

**Residence,** Allen road, Philadelphia. Architect, Robert Rhodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, Dr. H. S. Broomall, 7201 Cresheim road, Chestnut Hill. Stone, 2½ stories, 50x56 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work. Architect taking bids due February 26th.

**Garage,** 2026-28 Waverly street, Philadelphia, \$2,000. Architect, private plans. Owners, A. McTavish, Inc., 1515 Pine street, Philadelphia. Brick, 2 stories, 32x28 feet, slag roof, cement floors, electric lighting. Owners will build.

**Paving, Philadelphia.** Owners, City of Philadelphia, Department of Public Works, City Hall. Owners taking bids due February 23rd at noon at Room 216, City Hall. Schedule A—Asphalt Paving: Florence avenue, from Fifty-fourth street to Fifty-fifth street; Price street, from Chew street to McMahon avenue; Ridley street, from Limekiln pike to Twentieth street; Rosehill street, from Rockland street to Ruscomb street; Tilton street, from Ontario street to Schiller street; Yocum street, from Shields street to Sixty-eighth street; Fifty-sixth street, from Summer street to Vogdes street. Schedule B—Repaving with Asphalt: Callowhill street, from Broad to Fifteenth street; Callowhill street, from Fifteenth street to Parkway; Sixteenth street, from Locust street to Arch street (Schedule C); Thirteenth street, from South to Walnut and Arch to Spring Garden. Schedule D—Furnishing and delivering crushed stone. Schedule E—Furnishing bituminous material. Schedule F—Furnishing and delivering ready-mixed concrete. Schedule G—Grading and foundations for Harrogate Incinerator.

**Paving and Repaving, Philadelphia.** Owners, City of Philadelphia, Department of Public Works, City Hall. Owners taking bids due February 20th for the following:

Schedule A—Asphalt Paving: Almond street, Buckius to Ash street; Barbara street, Moyamensing avenue to Eighteenth street; Bermuda street, Orthodox street to Duncan street; Broad street, Seventieth avenue to Fracker street; Howard street, Clearfield street to Lippincott street; Marvine street,

Clarkson avenue to Sommerville avenue; Mulberry street, Harrison street to Wakeling street; Oxford street, Columbia avenue to Fifty-fourth street; Robinson street, Had-dington street to Jefferson street.

Schedule B—Granite Block Repaving: Sansom street, Twenty-third street to Twenty-fourth street; Fifteenth street, Spring Garden street to Girard avenue.

Schedule C—Furnishing and setting granite curbing, repairing footfalls, etc. 100 feet blue stone curb, 400 feet granite curbing, 1,900 feet concrete curbing, 400 square yards brick walk, 2,600 square yards cement walk, 1,100 square yards brick repaving.

Schedule D—500 feet cement curbing, 500 square yards brick walks, 500 square yards cement walks, 200 water stop boxes, 200 sewer lateral vent boxes, 700 feet granite curb, 500 feet concrete curb, 500 square yards cement walks, 2,000 feet concrete curb, 3,000 square yards cement walks.

**Elevator Shaft,** South side Reed, East of Meadows street, \$3,000. Architect, private plans. Owners, Franklin Sugar Refining Co., Reed and Meadows streets, Philadelphia. Brick work. Owner will build.

**Residences (5), Nos. 2030 to 2038 Latimer street, Philadelphia.** Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Henry H. Farley, Widener Building, Philadelphia. Brick, cut stone and steel, plumbing, carpentry, mill work, slag roof, painting, glazing, electric light, tile and marble work (heating reserved), bond, iron work. Architect taking bids due February 26th.

**Residence (alts.) and Garage,** Chestnut Hill, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Dr. Francis Clark Grant, 3400 Walnut street, Philadelphia. Architect taking bids due February 23rd.

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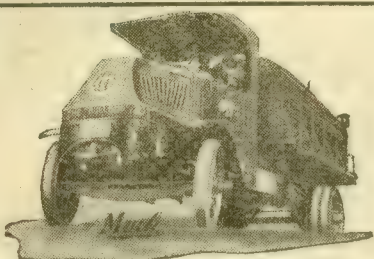
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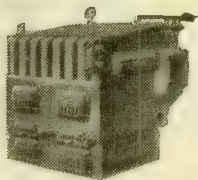
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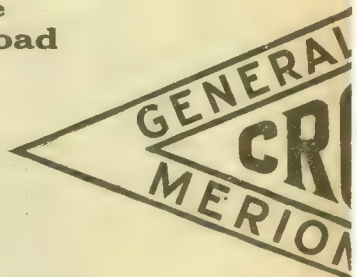
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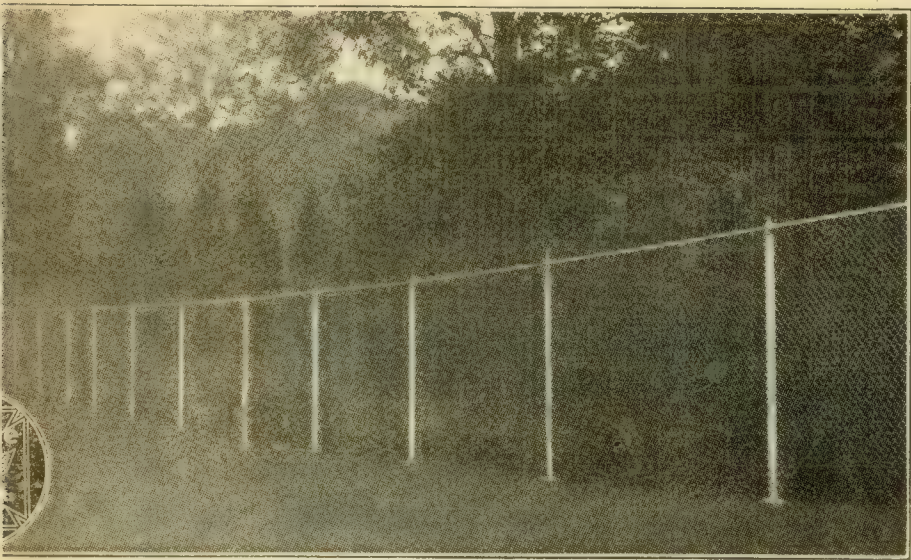
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## Contracts Awarded

### Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Benjamin Franklin Hotel**, Ninth and Chestnut streets, \$5,000,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Benjamin Franklin Hotel Co., care of A. M. Greenfield, 15th and Chestnut sts., Phila. Granite, cut stone, limestone, reinforced concrete and steel, 16 stories, loft, basement and sub-basement, 194x230 feet, slag and tile roof, asphalt mastic, cement and oak floors, hollow tile, metal lath, safety treads, waterproofing, terra cotta, iron work, cork insulation, vault doors, bond, kalamein and hollow metal doors and sash, tile and marble work, electric lighting, steam heating. Contract awarded to John Gill & Son, Cleveland, Ohio.

**School**, Knorr, Cottage and Gillespie streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Reinforced concrete, brick, granite and steel, 3 stories, 171x148 feet, composition and tile roof, cement, pine and maple floors, safety treads, metal weather strips, waterproofing, terra cotta, iron work and stairs, bond, hollow metal doors and sash, rolled steel skylights, tile and marble works, metal lath. Contracts

awarded to Cramp & Co., Denekla Building, Philadelphia, \$443,931. Heating, McClintock Brothers, 5216 Webster street, \$45,849. Plumbing, B. A. Hertsch, 7963 Oxford pike, Fox Chase, \$18,733. Electric, Walker Kehler, 531 Chestnut street, \$16,807.

**School**, Large, Wakeling, Howarth and Horrocks streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Reinforced concrete, brick, granite, cut stone and steel, 3 stories and basement, 170x146 feet, composition and tile roof, cement and maple floors, safety treads, waterproofing, terra cotta, iron work and stairs, bond, hollow metal doors, rolled steel skylights, sheet metal sash, tile and marble work, metal lath. Contracts awarded to McCloskey Co., 1620 Thompson street, \$442,322. Heating, McClintock Brothers, 5216 Webster street, \$45,629. Plumbing, B. A. Hertsch, 7963 Oxford pike, Fox Chase, \$19,320. Electric, Ross Electric Const. Co., Beach and Brown, \$16,545.

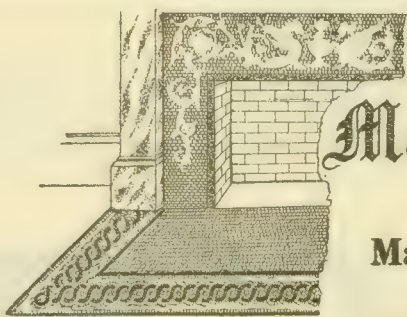
**Loft Building**, Northeast Corner Randolph and Vine streets, Philadelphia, \$250,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Julius Boekel,

516 Vine street, Philadelphia. Concrete, brick and steel, 4 stories and basement, 149x85 feet, asbestos roof, asphalt and ruberstone floors, hollow tile, waterproofing and damp-proofing, iron stairs, iron work, bond, hollow metal skylights, hollow metal doors, fire doors, rolled steel sash, metal lath, tile and marble work. Contract awarded to Cramp & Co., Denekla Building, Philadelphia.

**Building (alts.)**, 1227 Spruce street, Philadelphia. Architect, private plans. Owners, Haverford Club, on premises. Painting (interior and exterior), carpentry, mill work, plumbing, warm air heating, electric lighting, plastering, oak and composition floors. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**School (add.)**, Warehouse and Print Shop, Second and New streets. Owners, Board of Education, Nineteenth above Chestnut street. Contracts awarded to Kober Const. Co., 34 South Seventeenth street, \$107,977. Heating, Austin, Gorham & McIlvain, 1816 Ludlow street, \$7,200. Plumbing, Bulman Brothers, Fifth and Cumberland streets, \$5,985. Electric, Ross Elect. Co., Beach and Brown streets, \$3,500.

**Social Service Building**, 307-09-11 South Broad street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, name withheld. Brick, cut stone, concrete and steel, 10 stories, 50x136 feet, slag and tile roof, cement and oak floors, hollow tile, elevators, waterproofing, terra cotta, iron work, bond, tile and marble



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work, metal lath, electric light, steam heating. Contract awarded to George A. Fuller Co. Morris Building.

**Store and Office Building**, Broad and Rockland streets, \$105,000. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Rockland Real Estate Co., Philadelphia. Brick, steel, limestone, granite and concrete, 2 stories, basement, 73x126 feet, slag roof, oak and pine floors, metal ceilings, terra cotta, iron work, tile work, metal lath, electric lighting, steam heating. Contract awarded to John Schnabel, Inc., Denckla Building.

**Building (alts. and add.)**, 233 South Eleventh street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, David D. Sempline, 1305 Walnut street, Philadelphia. Brick, cut stone and stucco work, carpentry, mill work, hardware, pine and oak floors, plastering, iron work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

**Residence**, Scotfoth road, Germantown, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Charles J. McManus, Wissahickon below Carpenter street, Germantown. Stone, 2½ stories, 60x29 feet, shingle roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to William C. Wright, 22 Harvey street, Philadelphia.

**Residence**, Oak road, Germantown, Philadelphia. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Professional Office Building**, 1402 Spruce street, Philadelphia. Architect, Gabriel B. Roth, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick and steel, 4 stories, 56x20 feet, slag roof, composition and oak floors, metal lath, iron work, bond, tile work, hot water heating, electric light (elevators reserved). Contract awarded to Frank G. English, 1610 North Carlisle street.

**Warehouse**, East side Thirteenth street, North of Pike street, Philadelphia, \$13,000. Architect, Curtis-Hoesy-Dwyer Co., 2220 Chestnut street, Philadelphia. Owner, Charles F. Felin & Co., York road and Butler street. Brick, 3 stories, 66x22 feet, slag roof, steam heat, cement floors. Contract awarded to William J. Morrison, 3230 Howell street.

**Bank (alts.)**, Southwest Corner Front and Norris streets, Philadelphia, \$10,000. Architect, Paul A. Davis, Presser Building, Philadelphia. Owners, Ninth National Bank, on premises. General alterations, carpentry, mill work, metal lath, cement floors, plastering. Contract awarded to Henry E. Baton, 1713 Sansom street, Philadelphia.

**Factory**, 4423 Frankford avenue, Philadelphia, \$35,000. Architect, private plans. Owners, La France Textile Co., 4423 Frank-

ford avenue. Brick, 3 stories, 50x80 feet, slag roof, steam heat, cement floors, steel sash, electric light. Contract awarded to John F. Davis, 1021 Herbert street, Philadelphia.

**Banking Rooms (alts.)**, Northwest Corner Broad and Manning streets, \$15,000. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Community Trust Co., on premises. Mill work, carpentry, electric work, bank fixtures, cement work. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

**Garage (alts.)**, 2147-49-53 North Seventh street, Philadelphia, \$10,000. Architect, private plans. Owner, Harry Hagan, 2334 East York street, Philadelphia. General alterations. Contract awarded to Daniel Carr, 3331 Frankford avenue.

**Garage (add.)**, 4349-51-53 North Seventh street, Philadelphia, \$6,000. Architect, private plans. Owner, Adolph Morell, Northeast Corner Eighth and Wingohocking streets. Brick, 1 story add., 16x60 feet, 15x42 feet and 25x18 feet, slag roof, cement floors, electric lighting. Contract awarded to G. J. Reach, 5126 North Tenth street, Philadelphia.

**Two-Family Residence (alts.)**, South side Cumberland, West of Kensington avenue, Philadelphia, \$5,500. Architect, private plans. Owner, Bernard Gallagher, Kensington avenue and Cumberland street. Carpentry, mill work, painting, glazing, general alterations. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

**Warehouse (alts.)**, Northwest Corner Delaware avenue and Bainbridge street, \$8,000. Architect, private plans. Owners, Bailey Warehouse Co., on premises. Brick work, carpentry, mill work, plastering, painting. Contract awarded to Drehmann Paving Co., 521 Glenwood avenue.

**Store and Three-Family Residence (alts. and add.)**, 2939 Frankford avenue, Philadelphia, \$5,000. Architect, private plans. Owner, Frank Chabrow, 24 South Front street, Philadelphia. Brick, 1 story add., 16x32 feet, general alterations. Contract awarded to Edward Holland, 5005 Sansom street.

**Bungalow**, South side Bleigh street, East of Duncan street, \$4,350. Architect, private plans. Owner, Edward C. Edwards, 213 East Allegheny avenue, Philadelphia. Frame, 1 story, 26x33 feet, hardwood and pine floors, electric light. Contract awarded to Harry L. Miller, 7319 Palmetto street.

**Storage Building (alts. and add.)**, 518 South Fourth street, \$3,400. Architect, private plans. Owners, David and Harry Slutsky, on premises. Brick, 1 story, 16x23 feet, slag roof, electric work, alterations. Contract awarded to W. Sklarr, 628 Pine street, Philadelphia.

**Residence and Office (alts.)**, 124-26 South

Seventeenth street, \$3,200. Architect, private plans. Owner, Charles F. Haver, 124 South Seventeenth street, Philadelphia. General alterations. Contract awarded to Henry P. Schneider, 3713 Old York road.

**Coal Pockets (4)**, West side Seventeenth street, South of Clearfield, \$4,800. Architect, private plans. Owners, Kerr Hueffle Coal Co., Thirteenth and Cambria streets, Philadelphia. Reinforced concrete work. Contract awarded to Playford Mfg. Co., Logansport, Indiana.

**Stores and Offices (alts. and add.)**, 2401 South Tenth street, \$3,000. Architect, private plans. Owner, S. E. Schneys, 1002 Bailey Building, Philadelphia. Brick, 1 story, 15x10 feet, slag roof, general alterations. Contract awarded to Hyman Getz, 2741 Montgomery avenue, Philadelphia.

**Residence and Store (alts. and add.)**, 1539 South Broad street, \$3,000. Also **Garage**, \$1,000. Architect, private plans. Owner, H. Fedullo, 804 Walnut street, Philadelphia. Brick, 1 story add., 3½x30 feet, general alterations, garage, 1 story, 18x32 feet, electric light, pine and cement floors. Contract awarded to G. De Marco 1224 Christian street, Philadelphia.

**Business Building (alts.)**, 242 North Eighth street, \$4,000. Architect, private plans. Owner, Vincent Leone, 728 Vine street, Philadelphia. General alterations. Contract awarded to Frank De Marco, 1224 Christian street.

**Residence and Store (add. and alts.)**, 4367 Cresson street, \$2,100. Architect, private plans. Owner, Peter Regas, 4367 Cresson street, Philadelphia. Brick, 2 stories, 3½x12 feet, slag roof, pine floors. Contract awarded to C. M. Swartley & Son, 6835 Ridge avenue.

**Garage**, Southeast Corner Twelfth street and Sixty-ninth avenue, Philadelphia, \$2,656. Owner, J. Berch, on premises. Stone, 1 story, 20x20 feet, slate roof, cement floors, electric work. Contract awarded to Kohsen Decorative Co., 5710 Walker street.

**Garage**, 241 East Armat street, Philadelphia, \$2,650. Architect, private plans. Owner, Mr. Louis Chiola, on premises. Brick, 1 story, irregular size, slag roof, cement floors. Contract awarded to John Roman, 414 East Brighthurst street.

**Office**, 6628 Rising Sun avenue, Philadelphia, \$2,600. Architect, private plans. Owner, Frederick G. Fitt, 6626 Rising Sun avenue, Philadelphia. Frame, 1 story, 20x35 feet, electric lighting, pine floors. Contract awarded to United Home Builders, 6626 Rising Sun avenue.

**Residence and Store (alts.)**, 2166 North Thirty-second street, Philadelphia, \$2,200. Architect, private plans. Owner, Charles Rothberg, York and Douglass streets, Philadelphia. Flush bulks, general alterations, carpentry. Contract awarded to I. Manin,

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**Residence and Store (add.),** 1018 East Cheltenham avenue, \$2,100. Architect, private plans. Owner, J. J. Templeton, on premises. Brick, 1 story, 15x8 feet add., slag roof, pine floors. Contract awarded to John Roman, 414 East Brighthurst street.

**Building (alts.),** Southwest Corner Fifty-fourth and Woodland avenue, \$2,000. Architect, private plans. Owners, Bell Telephone Co., 1230 Arch street, Philadelphia. General alterations. Contract awarded to Albert Zellfelder, 1324 Walton avenue.

**Tower Tank,** North side Fountain, East of Canal street, \$4,500. Architect, private plans. Owners, A. T. Baker Co., on premises. Steel tank. Contract awarded to Pittsburg De Moines Steel Co., New York.

**Dwelling (alts.),** 1238 East Montgomery avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Frank Weikerly, 1112 East Susquehanna avenue, Philadelphia. General interior alterations. Contract awarded

Northern Const. Co., 515 Fisher's avenue, Philadelphia.

**Store and Office Building (alts.),** 902 Chestnut street, Philadelphia. Architect, Eugene Stopper, 10 South Eighteenth street, Philadelphia. Owners, Yawman & Erbe, 1017 Chestnut street, Philadelphia. Reinforced concrete, brick and steel, roof repairs, steam heat, electric light, metal lath, tile work, marble and terrazzo, rolled steel sash, fire doors, elevators, iron work. Contract awarded to Christian F. Roeger, 617 Delancey street, but not yet signed.

**Residence,** Rumford road and Ardleigh street, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Albert E. Broon, 1705 West Montgomery avenue, Philadelphia. Stone, 2½ stories, 26x60 feet, slate roof, oak and pine floors, iron work, bond, tile work (heating, lighting and plumbing reserved). Contract awarded to Edward J. Heinke, Twelfth and Norris streets, Philadelphia.

doors, brick work, bond. Plans in progress. Will be ready for bids next month.

**Twin Residence,** Seventeenth and Mineral Spring road, Reading, Pa. Architect, Warren S. Heinly, 7 South Fourth street, Reading, Pa. Owners, J. Yoffee and A. Blumberg, 14 South Seventh street, Reading, Pa. Stucco, hollow tile, 2½ stories, 70x35 feet, tile roof, hardwood floors, hollow tile, hot water heat, electric light, metal lath, tile and marble work. Plans in progress.

**Residence and Garage,** Drexel Hill, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Stone and stucco, 2½ stories, 60x35 feet, irregular, and 1 story, 18x30 feet, shingle or slate roof, hardwood and cement floors, tile and marble work, hot water heating, electric lighting. Plans about completed. Architect will be ready for general bids in one week.

**Stores (3) and Apartments,** Oakmont, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Deaves Hall, Land Title Building, Philadelphia. Brick, 3 stories, 30x74 feet, slag roof, hardwood and mosaic floors, copper bars, plate glass, tile work, hot water heating, electric lighting. Owners are taking sub-bids. Plans may be seen at Oakmont, Pa. (George W. Deaves).

**Bungalow,** Morton, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owners, Wait & Cox, Morton, Pa. Ideal brick, 1½ stories, 28x40 feet, shingle roof, pine and oak floors, hot water heating, electric lighting. Owners will build.

**Residence and Garage,** Cynwyd, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, Linton H. Fish, care of architect. Stone, 2½ stories, 24x34 feet, and 1 story, 14x20 feet, slate roof, oak, pine and cement floors, hot water heat, electric lighting, tile work, iron work. Architect taking bids due February 24th.

**Church,** Lansdowne, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Philomena's Roman Catholic Church, care of Rev. Francis J. Markee, Baltimore pike, Lansdowne, Pa. Brick, cut stone, reinforced concrete and steel, 128x56 feet, slate roof, pine and cement floors, roof ventilators, iron work, bond, metal lath (heating, electric work, plumbing, tile, marble and terrazzo reserved). Architect taking bids due February 26th at noon.

**Residence,** Jenkintown, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Mrs. Anna J. Gruber, care of architect. Hollow tile, brick and stucco, 2½ stories, 46x39 feet, slate roof, oak and pine floors, hot water heat, electric lighting, metal lath, tile work. Architect taking bids due February 27th.

**Manufacturing Buildings (2),** Hatboro, Pa. Architects, Austin Co., Bulletin Building, Philadelphia. Owners, Roberts & Mander Co., Eleventh and Washington avenue, Philadelphia. Brick, concrete and steel, 3 stories, 200x60 feet, and 2 stories, 150x40 feet, asphalt and slag roof, mastic, monolithic and maple floors, elevators, waterproofing, rolled steel sash, steam heating, electric lighting. Owners taking bids due as soon as possible.

**Y. M. C. A. Building,** Norristown, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, and Harry Gordon McMurtrie, associate, 1012 Walnut street, Philadelphia. Owners, Y. M. C. A., H. C. Gresh, Norristown, Pa.

## PENNSYLVANIA

# Construction News

**Buildings,** Cornwells, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Holy Ghost Apostolic College, Cornwells. Architects taking bids due February 24th at 11 A. M.

**Store House,** Juniata Shops, Altoona, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, terra cotta and steel, 3 stories, 60x400 feet, Barrett's on nalcote roof, cement floors, safety treads, waterproofing, iron work, floor hardener, fire doors, rolled steel sash, metal lath. Owners taking bids due March 6th.

**Sales and Service Station,** Bryn Mawr, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Neel Cadillac Co., 142 North Broad street, Philadelphia. Brick and concrete, 1 story, 85x127½ feet, slag roof, steam heating. Architect ready for bids.

**Thomas Rankin Patten Masonic Boys' Institute,** Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Brick and concrete, 3 stories and basement, L-shaped, 92x75 feet, slate roof, maple and concrete floors, gypsum block partitions, hot water heating, electric lighting, tile work. Plans in progress.

**Twin Residence,** Sixty-fifth avenue and Broad street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, W. W. Moore, 1338 Sixty-fifth avenue, Oak Lane, Philadelphia. Brick, 2½ stories, 38½x35¾ feet, slate roof, hardwood floors,

vapor heating, electric lighting, tile and marble work. Architects will be ready for bids February 27th.

**Bungalow,** Manoa Heights, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, E. H. Applegate, care of architect. Frame and stucco, 1 story, 28x47 feet, shingle roof, Bishop Babcock vapor heating, electric lighting. Plans in progress.

**Manufacturing Building,** York, Pa. Architects and engineers, William Steele & Sons Co., 219 North Broad street. Owners, P. A. and S. Small, York, Pa. Plans in progress. Too early for details.

**Hospital Building,** Haverhill, Pa. Architects, United Engineering Co., 300 Walnut street, Philadelphia. Owner, N. H. Holman, 648 West Diamond avenue, Hazleton, Pa. Stone and brick, 3 stories, 30x80 feet. Sketches drawn. Preliminary plans in progress.

**Bank Building,** Conshohocken, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, First National Bank, C. Horace Jones, president, Conshohocken, Pa. Stone. Preliminary plans in progress. Too early for details.

**Residence (alts. and add.) to Church,** Chester, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, Home Mission Committee of the Chester Presbytery, Chester, Pa. Plans in progress. Too early for details.

**Buildings,** Cornwells, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Holy Ghost Apostolic College, care of Rev. J. J. Callahan, C. S. Sp., Cornwells, Pa. Architects are ready for bids.

**Bungalow,** Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Samuel Brunner, 632 Church street, Royersford, Pa. Concrete block, 1 story, 30x40 feet, asbestos roof, hardwood floors, concrete foundations, steam heat, electric light, tile work, plumbing, Morgan

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**Inn**, Caledonia, Franklin County, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, R. C. Miller, Gettysburg, Pa. Frame, 2 stories, 30x65 feet, shingle roof, hardwood floors, steam heat, electric light. Owner taking sub-bids.

**Residences (6) and Store (1)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Walter Zook, 311 North Queen street, Lancaster, Pa. Brick, 2½ stories and basement, 120x29 feet, asbestos shingle roof, pine floors, hot air heat, electric lighting. Owner will build.

**School (alts. and add.)**, Strasburg, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Strasburg School Board, Miss B. M. Aument, secretary, Strasburg, Pa. Brick, 2 stories, 40x60 feet, slate roof, maple floors, steam heat, electric light. B. Frank Bachman, Woolworth Building, Lancaster, Pa., is taking preliminary bids.

**Bungalow**, Hummelstown, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, T. Burridge, Hummelstown, Pa. Brick, stone trim, 1½ stories, 24x32 feet, hardwood floors, pipeless heat, electric light. Owner will take bids.

**Moose Temple**, Third and Boas streets, Harrisburg, Pa., \$150,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Loyal Order of Moose, No. 107, J. A. Searfauss, 220 Boas street, Harrisburg, Pa. Granite, 3 stories, 47x155 feet, composition roof, hardwood, tile and concrete floors (heating, plumbing and electric work reserved), tile, marble and terrazzo work, roof ventilators, elevators, terra cotta, ornamental iron work. Architect taking bids due February 26th.

**Bank (alts. and add.)**, Penbrook, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Penbrook Trust Co., care of Mr. Good, Penbrook, Pa. Brick, 2 stories, 20x30 feet. Too early for details.

**Hotel (alts. and add.)**, Market street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Senate Hotel, Dr. Goldman, Second and Market streets, Harrisburg, Pa. Stone, 5 stories, 25 rooms. Sketches in progress.

**Stores (4) and Apartments (12) (alts. and add.)**, Harrisburg. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Freedburg Brothers, 126 South Second street, Harrisburg, Pa. Brick, 5 stories, 40x110 feet. Too early for details.

**Bungalow**, Third and Summitt streets, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, G. F. Shultz, Reading, Pa. Brick, 1½ stories, 40x60 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

**Apartment Building (alts.)**, 40 South North street, Harrisburg. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, Charles Goodman, 109 North Second street, Harrisburg, Pa. Brick, 3 stories. Plans in progress.

**Bungalow**, Hummelstown, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Alfred McCall, Hummelstown, Pa. Frame, 1½ stories. Plans in progress.

**Residence (alts.) to Store and Apartment**, 1311 Market street, Harrisburg, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, E. R. Rhein, 1504 Market street, Harrisburg, Pa. Brick, 15x74 feet and 15x35 feet, tin roof, pine floors, electric light, plate glass. Plans in progress.

**Memorial Bridge**, near Media, Pa. Architect, Clarence W. Brazier, Chester, Pa. Engineer, R. J. Adylotte, Media, Pa. Reinforced concrete and stone, 300x42 feet, triumphal arch, 20x60x75 feet. Owners taking bids due March 6th.

## Pennsylvania

### Contracts Awarded

**Masonic Temple**, Lock Haven, Pa. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owners, Masonic Temple Association, John W. Dickey, chairman, Building Committee, Lock Haven, Pa. Reinforced concrete, brick, limestone, cut stone and steel, 3 stories and basement, 147x59 feet, slag roof, concrete and pine floors, metal lath, rolled steel skylights, bond, damproofing, ornamental iron work (waterproofing and elevators reserved). Contracts awarded to: General, Roydhouse-Arey Co., 112 North Broad street, Philadelphia. Heating and ventilating, Walters, Purks & Mellon, 4419 Ludlow street, Philadelphia. Plumbing, John Carroll, Lock Haven, Pa. Electric, J. F. Buchanan Co., 1719 Chestnut street, Philadelphia.

**High School**, Bridgeport, Pa. Architect, H. Courcy Richards, 618 Chestnut street, Philadelphia. Owners, Board of Education, School District, Bridgeport, Pa. Brick, cut stone, steel and reinforced concrete, 2 stories, 140x64 feet, composition roof, concrete roof, roof ventilators, metal ceilings, damproofing, waterproofing, iron work, bond, rolled steel skylights, metal lath. Contracts awarded to: Victor Gondos, Franklin Trust Building, Philadelphia, \$98,300. Heating and ventilating, American heating & Ventilating Co., 200 North Fifteenth street, Philadelphia, \$10,261. Plumbing, Crisman & Quilman, Norristown, Pa., \$5,150. Electric, Crisman & Quilman, Norristown, Pa., \$1,850.

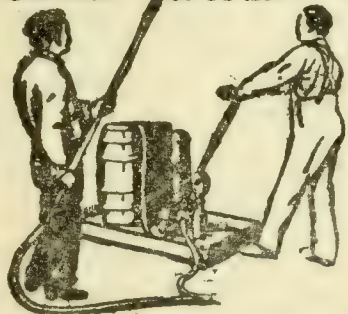
**Club House (alts. and add.)**, Locker Building and Caddy House, Ashbourne, Pa., \$35,000. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Ashbourne Country Club, Ashbourne, Pa. Brick, steel and castone, cut stone and stucco, 2½ stories, 56x64 feet, and 1 story, 36x64 feet, and 1 story, 40x12 feet, slate roof, maple and oak floors, metal weather strips, iron work, bond, tile and marble work, steam heating, electric light. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street, Philadelphia.

**Hotel**, Hazleton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Alamont Hotel, Hazleton, Pa. Brick, granite, steel and limestone, 8 stories and basement, and mezzanine, 144x92 feet, slag roof, concrete, cement and oak floors, metal lath, elevators, hollow metal sash, tile and terrazzo work, steam heating, electric lighting. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

**High School**, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board of Jenkintown, Pa. Brick, hollow tile and cut stone, 2½ stories, 139x143 feet, slate roof, pine, maple and composition floors, metal lath, bond, iron work. Contracts awarded to: General, Harry Murphy, Willow Grove, Pa., \$110,450. Plumbing, H. and A. Shaffer, Jenkintown, Pa., \$5,562.

**Varsity Club**, State College, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick, cut stone, steel and reinforced concrete, 4 stories, 170x79 feet, slate roof, cement floors, metal lath, waterproofing, bond, steam heating, electric lighting, tile, marble and terrazzo work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

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**Residence**, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, Walter K. Durham, 323 Walnut street, Philadelphia. Stone and stucco, 2½ stories, 25x32 feet, roofing undecided, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Matz Brothers, Collingdale, Pa.

**Residence**, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, William Morris, Lorraine avenue, Ardmore, Pa. Stone and stucco, 2½ stories, 25x32 feet, roofing undecided, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Matz Brothers, Collingdale, Pa.

**Service Station and Show Room**, Ardmore, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia, and John Charles Norton, Ardmore, Pa. Owner, R. B. Clark, Ardmore, Pa. Brick and steel, 1 story, 103x60 feet and 37x45 feet, slag roof, cement floors, roof ventilators, bond, rolled steel sash, metal lath, vapor heating, electric work. Contract awarded to Herbert G. Campion, Otis Building, Philadelphia.

**Residence**, Lansdowne, Pa., \$17,500. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Thomas G. Longcope, Lansdowne, Pa. Brick, 2½ stories, 25x40 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to George H. Evans, Inc., 109 North Thirteenth street.

**Residence**, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Joseph Moran, Lorraine avenue, Ardmore, Pa. Stone and stucco, 2½ stories, 25x32 feet, roofing undecided, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Matz Brothers, Collingdale, Pa.

**Building, No. 7**, Crescentville, Pa. Architects and engineers, William Steele & Sons Co., 219 North Broad street. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Reinforced concrete and brick, 3 stories, 50x50 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Residence**, Second street, Harrisburg, Pa. Architect, C. J. Lappley, Cottler-Ebner Building, Harrisburg. Owner, J. Hoffman, Cottler-Ebner Building, Harrisburg. Stone, 2½ stories, 36x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to W. H. Sollenberger, Harrisburg, Pa.

**Machine Shop (add.)**, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, Penn Engineering Co., 511 North Third street, Reading. Frame, 1 story, 42x29 feet, composition roof, concrete floors, electric lighting. Contract awarded to J. Wentzel, Reading, Pa.

**Apartment and Office**, Second and Broad streets, Harrisburg, Pa. Architect, C. J. Lappley, Cottler-Ebner Building, Harrisburg. Owner, Dr. Bader, care of architect. Brick, 3 stories, 25x90 feet, slag roof, hardwood floors, vapor heat, electric light, tile and terrazzo work. Contract awarded to H. A. Hipple, Front and Emerald streets, Harrisburg, Pa.

**Residence**, Rutledge, Pa. Architect, Charles H. Wells, Rutledge, Pa. Owner, W. K. Pearce, Media, Pa. Penn cement building block, 2½ stories, 30x40 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Contract awarded to George W. Gregory, Swarthmore, Pa.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

## New Jersey Construction News

**Bank (alts. and add.)**, Bridgeton, N. J. Architect, Thomas E. Ash, 1220 Locust street, Philadelphia. Owners, Bridgeton National Bank, Bridgeton, N. J. Reinforced concrete, cut stone and steel, 1 story, 80x20 feet, slag roof, cement floors, tile, marble and terrazzo work, rolled steel sash, bank fixtures, waterproofing, iron work. Architect taking bids due February 26th.

**Apartment House**, Indiana and Pacific avenues, Atlantic City, N. J. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, William Penn Apartment Corporation, care of architect. Brick, cut stone, terra cotta and steel, 10 stories and basement, 150x53 feet, slag roof, granolithic, oak and pine floors, elevators, waterproofing, iron work and stairs, rolled steel doors and sash, tile, marble and terrazzo work, metal lath, electric lighting, steam heating. Architect taking bids due March 5th.

**Sales and Service Building**, Camden, N. J. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Neel Cadillac Co., Camden, N. J. Brick and concrete, 2 stories, 98x200 feet, slag roof, steam heating, electric lighting. Plans in progress.

**Cow House**, Bridgeton, N. J. Architect, Walter L. Custer, Bridgeton, N. J. Owner, name withheld. Concrete, 1 story, 80x336 feet, slag roof, cement floors, electric light, steel sash, wood ventilators. Plans in progress.

**Hospital**, Atlantic City, N. J. Architects, H. A. Stout, H. V. Mathis and J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Hospital, care of Mr. J. Moore, Atlantic City. Fireproof, 5 stories, 120x165 feet, slag roof, electric light, tile and marble work, metal lath, hollow tile, elevators, roof ventilators, rolled steel sash. Preliminary sketches in progress.

**Store and Apartment (alts.) to Office**, Pacific and Kentucky avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Atlantic City Electric Co., Kentucky and Pacific avenues, Atlantic City, N. J. General alterations, electric light, tile and marble work, hardwood floors. Plans in progress.

**Apartment**, Pennsylvania and Atlantic avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, H. Lowenthal, Virginia and Atlantic avenues, Atlantic City. Brick, 3 stories, 75x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Cottage**, Chelsea, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, William H. Hoffman, 27 South California avenue, Atlantic City. Brick, 3 stories, 36x40 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Nursery**, East Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Carolyn Stokes Nurseries, care of architect. Sketches in progress.

**Club House**, Flemington, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owners, American Legion, care of George Parker, Flemington, N. J. Brick, 2 stories, 20x42 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath. Owner is taking sub-bids.

**Cow Barn (alts.)**, Woodbine, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Colony for Feeble Minded, care of Mr. Center, Woodbine, N. J. General alterations, shingle roof,

composition floors, electric light, metal lath. Owners will build.

**Apartment**, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, William Johnson, care of architect. Brick, steel, 3 stories, 30x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect ready for revised bids.

**Store and Apartment**, New Hampshire avenue, Atlantic City. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Hantman, 427 North New Hampshire avenue, Atlantic City. Brick, 2 stories, 50x75 feet, slag roof, hardwood floors, electric light, hot water heat, tile work. Owner will build.

**Parkway School and Auditorium**, Ewing Township, Mercer County, N. J. Architect, R. A. Schuman, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, C. W. Latham, care of architect. Brick, 1 story, 115x127 feet (heating, plumbing and electric work reserved), slag roof, pine and hardwood floors, metal lath, safety treads, roof ventilators, skylights, bond, concrete stairs, waterproofing and dampproofing. Architect ready for bids due March 1st.

**School**, Ewing Township, Mercer County, N. J. Architect, R. A. Schuman, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Latham, secretary, care of architect. Brick, 1 story and basement, 40x115 feet, slag roof, pine floors, steam heat, electric light, metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, concrete stairs. Architect ready for bids due March 1st.

**Rectory**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, St. Michael's Roman Catholic Church, care of architect. Brick, cut stone and steel, 3 stories, 64x32 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids due February 24th.

**Office Building**, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, A. Freeman, 1516 Atlantic avenue, Atlantic City, N. J. Brick, 5 stories, 40x140 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, elevators. Architect taking bids.

## New Jersey Contracts Awarded

**Junior High School**, Cadwallader street, Trenton, N. J. Architect, Ernest Sibley, Palisades, N. J. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton School Board, R. C. Belville, secretary, Trenton, N. J. Brick, steel, fireproof, 2 stories, 280x410 feet, slate roof, hardwood floors, hollow tile, metal lath, safety treads, roof ventilators, marble and terrazzo work, rolled steel skylights, iron stairs, ornamental iron work, terra cotta, waterproofing and dampproofing (heating, plumbing, electric work and ventilating reserved). Contract awarded to C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., \$778,000.

**School**, Browning road, near Haddon avenue, Collingswood, N. J. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Board of Education, Collingswood, N. J. Brick and steel, 1 story, 88x62 feet, slate and slag roof, cement and pine floors, iron work, metal lath, tile work. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia, \$34,870, add. \$400. Heating, A. McClintock & Sons, 1937 Ridge avenue, Philadelphia, \$4,400. Plumbing, William Newell & Son, 1707 Sansom



street, Philadelphia, \$2,150. Electric, J. F. Buchanan Co., 1719 Chestnut street, Philadelphia, \$437.

**Junior High School and Gymnasium**, Collingswood, N. J. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Board of Education, Collingswood, N. J. Brick, cut stone and steel, 2 stories, ground floor and basement, 105x65 feet, and 1 story, 129x46 feet, slag and slate roof, oak, pine, cement and maple floors, metal lath, waterproofing, iron work and stairs, bond, kalamein and hollow metal doors, tile and marble work, steam heat, electric lighting. Contracts awarded to William Linker Co., 735 Cherry street, Philadelphia, \$318,400; gymnasium, \$58,900. Heating, A. McClintock & Son, 1937 Callowhill street, \$34,520. Plumbing, William Newell & Son, 1707 Sansom street, \$17,889. Electric, J. F. Buchanan Co., 1719 Chestnut street, \$7,083.

**School**, Blenheim, N. J. Architect, Harry Armstrong Hill, Broad Street Bank Building, Trenton. Owners, Gloucester Township Board of Education. Brick and steel, 1 story, 78x66 feet, shingle roof, cement and pine floors, iron work, floor hardener, bond, hollow metal sash, metal lath (heating, plumbing and electric work reserved). Contract awarded to Wills Bill Co., 1706 Sansom street, Philadelphia, \$28,490.

**Store Building (alts.)**, Sixth and Pine streets, Camden, N. J. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Alfred and Ethel Parsons, on premises. Brick, 2 stories, 18x14 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to Potts Brothers & Cooperson, 1016 Cherry street, Philadelphia.

**Residences and Garages (38)**, Eighth and Erie streets, and Eighth and Bailey streets, Camden, N. J. Architect, private plans. Owners, The Wood Mfg. Co., Camden, N. J. Brick, 2 stories, 16x40 feet and 10x16 feet, slag roof, oak and pine floors, hot water heating, electric lighting, rolled steel sash, iron work. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

**Building (add.)**, 508-10 Cherry street, Camden, N. J. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owners, M. Fuhrman & Co., on premises. Brick and steel, third story add., 60x40 feet, slag roof, pine and cement floors, steam heating, electric lighting. Contract awarded to Potts Brothers & Cooperson, 1016 Cherry street, Philadelphia.

**Hall (alts. and add.)**, Atlantic and Michigan avenues, Atlantic City. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owners, Red Men, Tribe No. 106, on premises. Brick, 1 story, 50x50 feet, general alterations. Contract awarded to S. H. Headley, Guarantee Trust Building, Atlantic City, N. J.

## Miscellaneous Construction News

**Senior High School**, East side of Sixth street, between Campbell and Luck avenues, Roanoke, Va., \$600,000. Architect, H. Courcy Richards, 618 Chestnut street, Philadelphia. Owners, School Board of Roanoke, J. A. Page, Clerk of the Board, 214 Church avenue, S. W., Roanoke, Va. General construction (heating, electric work, plumbing and ventilating separate bids). Owners taking bids (duplicate), due March 15th at noon. Plans may be obtained from architect's office or Clerk of the Board. Deposit on construction plans, \$50.00, refund \$30.00. Deposit on each set for mechanical equipment, refund, \$30.00.

**Athletic Field Club**, New Haven, Conn. Ar-

chitects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Yale University, New Haven, Conn. Brick, reinforced concrete, steel, bluestone and granite, 3½ stories, 170x70 feet, slate roof, cement and pine floors, hollow tile, metal lath, tile and marble work, waterproofing, iron stairs and work, bond, steel and kalamein doors, rolled steel skylights. Contract awarded to Fred T. Ley Co., Springfield, Mass.

**Shop No. 12**, Edge Moor, Del. Architect, private plans. Owners, Edge Moore Iron Co., Edge Moor, Del. Reinforced concrete, stone and steel, 2 stories, 369x98 feet, slag roof, concrete and wood block floors, rolled steel sash. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

(Continued from Page 116)

the corner, while on the other side the lot line was clearly determined by an old brick building located on the lot in question. It was evident that the building on the lot in question was laid out in relation to one end of the block whereas the other building assumed the other corner as correct, leaving a surplus of two feet which no one can legally claim but may be occupied and used by the owner of the vacant lot in question, without interference by adjoining property owners because they have no ground for court action. In this case the owner is the gainer but whether gaining or losing the fact that the description in the abstract is not reliable depreciates from the value of the abstract.

Another view of the importance of a survey is the general information furnished by a surveyor as, for example, the proposed condemnation of property. Recently, in two similar cases in different parts of the city the lack of information of the proposed condemnation for the purpose of street widening caused great financial loss to the builders concerned. In both cases plans were drawn for an ordinary store and apartment building where the certainty of its approval by the building department of the city caused the builders to complete basements for the structures prior to obtaining a building permit.

In the city of Detroit in cases where the condemnation of property is only in its proposed stage and carries no certainty of its being approved, the building department will issue a permit for the erection of a building upon the property at the risk of the builder.

The builders in both of these cases found it too risky to proceed according to original plans so that whatever could be salvaged of the material in the basement walls was used for the new structures built according to new plans assuming the proposed future front property lines.

It is a fact that so far in the examination of abstracts at the time of transfer of title no attempt has been made to bring the description of the subject property

to date simultaneously with its legal ownership.

Even if there were no new buildings erected on the property since its last transfer a survey would show whether the adjacent property owners did not encroach on the property in question which would require legal action to cause their removal.

It is gratifying to note, however, that a number of our financial institutions and all the way down to the smallest property owners and builders are beginning to realize the importance of establishing the accurate boundaries of their properties. The cost of the service is usually so very low as compared with the safety and peace of mind it affords that it leaves practically no case where it might or should be dispensed with.

The present practice of requiring surveys of vacant property in the case of loans on new structures and further surveys showing the location of buildings in relation to property lines for both new and old structures on which mortgages are issued is well expressed by Mr. N. M. Gross, Vice-President of the Federal Bond and Mortgage Company, one of the foremost first mortgage houses in the state of Michigan:

"We consider the survey of a piece of property one of the most important essentials in the safeguarding of our mortgages; in fact, we require two surveys under each loan we make. The first survey is of the real estate itself—the second survey shows the building within the lot lines. We have always adhered strictly to this policy."

In a reply to our request, Mr. J. L. Hirschman, associate to Mr. Albert Kahn, prominent architect and engineer of Detroit writes:

"Referring to your request from us for an expression as to the necessity of a survey in connection with building construction work. Such an inquiry is merely putting in other words whether it is necessary to know accurately the location and the size together with the levels of a piece of property in order to plan a building to be erected on the same. We believe the condition speaks for itself."

The H. G. Christman & Company, prominent Detroit builders of wide experience, has this to say:

"In our opinion a survey is a cheap form of insurance against damages which may arise from the improper location of a structure. In several cases where we have had contracts to add to existing buildings, we have found the existing buildings to be encroaching on adjacent property. Such conditions if not properly safeguarded against, may be the cause of considerable financial loss to the contractor."

Mr. F. J. Beyer, Assistant Cashier in



charge of real estate mortgage loans of the Bank of Detroit, expressing the policy of the bank on the question of the importance of surveys to the mortgages, clearly emphasizes the most important point:

"The Bank of Detroit is not satisfied merely with having the abstract of title brought down to date in connection with safeguarding its mortgage loans. While the abstract gives assurance as to the correct legal ownership, it does not vouch in any manner for the description of the subject matter covered by the abstract. Too often the piece of property itself, which is the security of the loan, is found, upon having it surveyed, to be materially different from what is called for and described in the abstract of title. Consequently, we have learned by experience to rely not only upon the abstract of title to give us our legal protection but equally as important upon a competent survey of its subject matter to give us our corporate rights."

The Union Trust Company, through its Vice-President and the Real Estate Officer, Mr. B. H. Manning, in charge of the real estate and mortgage departments which handles a great volume of loans on behalf of a prominent eastern insurance company sums up the situation in this very clear manner:

"The survey furnishes a means of accurately checking the description in the mortgage or other conveyance; gives assurance that the buildings appraised are actually situated upon the property covered by the mortgage; and in addition shows whether or not existing building restrictions and the building code have been violated. We have found it not only highly advisable but almost essential to insist upon a survey in connection with mortgage loans."

#### BIGGEST TESTING MACHINE IN THE WORLD AT BUREAU OF STANDARDS

A crushing force equal to the weight of fifty loaded coal cars of a hundred tons each can be exerted by the largest testing machine in the world which is now being installed at the Bureau of Standards. This machine has been in use for several years at the branch laboratory in Pittsburgh and has recently been moved to the main laboratory in Chevy Chase, a suburb of Washington, D. C.

The machine has been erected and when adjusted will be ready about the first of the year to continue work on the specimens for the towers of the Delaware River Bridge now under construction at Philadelphia. After that it will be used on the remainder of seventy-two steel columns which were being tested at Pittsburgh. It has recently been used for

tests on forty-five samples of brick walls laid in different ways and with different kinds of mortar.

This machine has two massive heads, one set in a concrete foundation beneath the laboratory floor, the other supported on four steel screws, each over a foot in diameter, and two stories high. The upper head may be set at any height by turning the nuts on the screws by means of an electric motor.

The specimen to be tested is placed in the machine by an electric crane capable of lifting twenty tons. The upper head is brought down until it rests on the specimen and the load applied by a huge hydraulic jack built into the lower head. The piston of this jack, on which the specimen rests, is lifted by oil forced into the cylinder under a pressure of 5,000 pounds per square inch by a motor-driven pump.

Measurements are usually made of the shortening of the column under load, and when it crushes the broken pieces are studied to find the reasons for the failure and the method for making stronger columns.

Long columns are the most difficult of all engineering structures to design. No reliable means has yet been worked out for calculating their strength in advance from the unit strength of the material. This can be done with a rod in tension. Ten ropes will carry ten times as much as one rope, and a bar of iron two inches by five will carry ten times as much load in tension as a bar one inch square,—provided the material is the same throughout. But with a column in compression this is not true. The strength depends much more on the shape and size of the part than it does on the amount of material in it, so the only way to be sure the column is strong enough is to test the full sized part in a testing machine such as this.

Such tests result in a great saving of money. Once a column has been tested the load that can safely be carried by a column of the same size and type is known, and all such columns built thereafter can be loaded to their safe working load without fear that they will fail.

It is believed that by careful experimental work a method of design can be found which will allow the strength of steel columns for bridges and buildings to be calculated before they are built. This will be of great benefit to everyone using buildings, as it will be possible to make them safer and at the same time cheaper. A thorough investigation of this important problem can be made only by effective co-operation of the engineers and architects designing buildings with trained investigators such as those at the Bureau of Standards, and with the public who pays for the use of the buildings.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us; we choose them for ourselves.—H. W. Mabie.

Repetition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

Investigations of the Bureau of Mines show that waste slate may be used to advantage as a filler in mechanical rubber goods and in some classes of oilcloths, floor coverings, and window shades. For plastic roofing and flooring products containing coal tar it has long been in use and is a very satisfactory filler. Several hundred carloads a year of waste slate are probably used for this purpose at the present time.

For some products, particularly for rubber, a much finer grained slate flour than any now on the market is demanded. One of the most promising ways in which manufacturers of pulverized slate can promote a wider use of slate flour is by producing a uniform, reliable product, at least 95 per cent. of which will pass a 300-mesh screen, and by introducing such product among manufacturers of mechanical rubber goods, linoleum, oilcloth, phonograph records, and other products requiring extremely fine-grained filler.

The manufacture of filler road-asphalt mixtures is a promising field for slate-waste utilization. The tonnage of filler used in such asphalt mixtures is very great, one authority estimating that the city of New York alone requires 50,000 tons a year. Preliminary tests indicate that the use of slate flour as a filler in asphalt road surface mixtures would result in improved highways, and that a wide use of such filler would afford a profitable outlet for waste slate with consequent advantage to the slate-producing industries.

The investigations above referred to are described in Bulletin 218, "The technology of slate," by Oliver Bowles, which may be obtained by addressing the Bureau of Mines, Washington, D. C.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co.,  
Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
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Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T., Narberth, Pa.  
Mitchell Bros., 2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraim Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CEMENT.

DeFraim Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy, Merion Station, Pa.  
Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co., Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co., 133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Contract Waterproofing Co., Harrison Bldg., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

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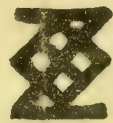
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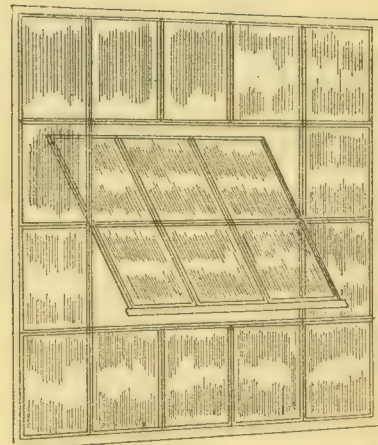
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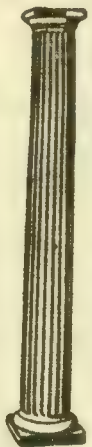
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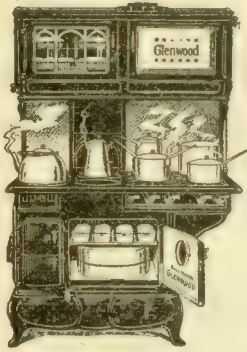
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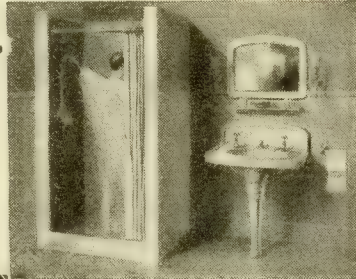
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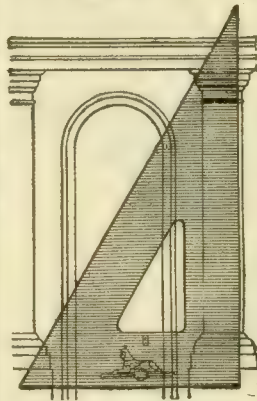
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 9

PHILADELPHIA  
February 28, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### COMMON DEFECTS IN ORDINARY BUILDING CONSTRUCTION

*Why Structural Engineers Should Be Consulted in Their Design*

BY EDWARD GODFREY

There are professions so organized that the services of the members of the profession are forced on the public, whether the public wishes the services or not. Professional engineers have never busied themselves with the matter of forcing unwilling clients to employ them. The various state laws for the registering of engineers are not the work of professional engineering societies and are uniformly considered an annoyance and a useless burden by such engineers.

This article is not an effort to urge compulsory employment of engineers, but it does aim to show that the employment of a structural engineer on any structure of importance is an economic necessity. We have insurance against fire and no matter how careless a tenant may be in the handling of inflammables, the insurance companies generally have to pay. The only insurance against the collapse of a building from structural weakness is that which results from proper design, proper materials and proper execution of the construction.

Without belittling the importance of the other two it can be truly said that if the design is not proper, the possibilities

of disaster are immensely greater than could be imagined with the most careless manipulation and the poorest materials that any contractor would dare to employ. I say this deliberately. Great structures have collapsed in utter ruin; uniformly the cause has been a bad design (or improper planning of the erection which is also designer's work). I could name 40 large structural failures and point out in each one the fundamental error in design that was responsible for the failure. It is true that poor materials and poor workmanship have figured as contributing causes in many of these, but the extent of the disaster could never have resulted from any other principal cause than improper design.

I have always advocated the formulation of rules of design—the elimination of judgment wherever it can be done. Judgment is good and proper and necessary, especially where there is no good rule that has application, and such occasions are very frequent and will always be sufficiently numerous to require the services of an engineer in structural designing. But judgment should be reserved for the things that are not covered by rules of design.

#### *Need for Elimination of Individual Judgment*

1—It should not be left to the judgment of the individual designer what unit stresses may be used for structural materials.

2—It should not be left to the judgment of an owner of the patent on a special system of design to selection of the moments or stresses that may be assumed in the parts of that design, even though those moments and stresses seem to have the support of privately made and privately interpreted tests.

3—It should not be left to the judgment of the individual designer to supply or omit details adequate to the stresses in the members of a structure.

A whole article could be written on each of the above three items.

Under 1 it may be pointed out that stresses on wood of the same grade, as used by different designers, run all the way from 800 to 1800 lbs. per sq. in. Published examples of stress used in steel rods in reinforced concrete run as high as 32,000 lbs. per sq. in., and down to about a third of this.

Under 2, any designer familiar with the literature on "systems" will recall or be able to cite examples of unscientific claims based on still more unscientific and improperly interpreted tests.

Under 3, a volume could be written. It would seem superfluous to say that details should be adequate to take the stress of the members, but it is just here that more violations of engineering principles and common sense are perpetrated than in all other lines of structural engineering combined.

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### Errors I Have Seen Made

It would be easy for me to build up a fabric of supposed engineering errors to write to myself. But every case I shall cite is actually work I have seen. Many of these jobs have had the check that city building inspection departments give. It would not be fair to name the structure unless it is already a matter of published information.

On one occasion I wrote up the description of 22 classes of errors in details in one set of drawings, some of them very grievous. The editor asked for the detail drawings, seemingly to check up on the facts in the matter for he did not use them. I sent the prints, with titles cut out. He published the article.

My experience has included the following: Making and checking of designs of buildings and bridges in steel and reinforced concrete to the number of hundreds; inspecting and testing existing structures, such as bridges, buildings, tanks, a hundred or more. Incidentally I have taught in an engineering college. I have been drawn up the side (inside and outside) of many high standpipes, climbed up and down steel towers as high as 200 ft., waded in 18 in. of mud in the bottom of a tank, hung on a suspended ladder over water 30 ft. deep to measure and inspect steel work and sat in the witness chair by the hour while lawyers wrangled over the admission of "the professor's" testimony as an expert. I relate this experience to give the reader a basis for judgment as to the value of this contribution.

### Limiting Value of Handbook Standards

There are two phases of designing. One is the routine phase—seeing that beams and columns and tension and compression members meet the requirements of the specifications and that standard end connections are used on beams. These things are standardized. Handbooks tell the designer just what to do. Certain loads require certain beams when the beams have certain spans and spaces. Columns of given height have standard capacity loads. It is well that these standards exist; they lessen the chances of error. Danger in building construction does not consist in following these standards, but it does consist in the idea that one is apt to acquire that if these standards be followed, a proper engineering structure results.

The other phase of designing is one that requires study of the special features of the case that do not come in the "automatic" class. It is neglect of this phase of designing that gives rise to all structural steel failures. In reinforced concrete I do not hesitate to say that the standards of design are largely at fault, and these will never be safe until engineers recognize that stirrups and

short shear members do not prevent shear failures, and vertical rods near the corners of a concrete shaft do not make a proper column.

Values for column loads in handbook tables are on the assumption that columns are centrally loaded or that the load is balanced. Many designs violate good engineering because the tabular load is used for the columns when the load on the columns is quite eccentric or unbalanced.

Tabular values for beams are on the assumption that the beams are straight. Many designs err because curved beams are used in the same manner in which straight beams are used.

Standard end connections of beams are designed to carry the end reactions of the several beams as a simple vertical shear and are not designed to take cantilever stresses. Many designs are faulty because ordinary beam connections are required to take cantilever stresses.

### Knickerbocker Theatre Failure

The Knickerbocker theatre was weak in every different type of design employed, but had it been of ample strength in the roof slabs, the roof beams, the columns and the main roof truss, with the support of the main roof truss allowed to remain as it was, the collapse would have occurred just as it did. In other words, the routine phase of the design could have been ample and still disaster would have resulted.

This truss was supported on a high wall, built up of an outer facing of brick and an inner shell of tile laid with the cells vertical, laid without any practicable opportunity of making good mortar joints. It is probable that the inner shell yielded, and the resulting slope in the support allowed the truss to slide off. Or the truss, which met the wall at an angle of nearly 45 degrees by successive cycles of expansion and contraction simply worked off the seat laterally.

An engineer, examining the design of this building, would have seen to it that all parts were made in accordance with the rules of good practice. He would also have seen to it that the main truss was properly supported. If his examination had been made after the building was erected, he would have ordered the building closed until adequate truss support were provided and sufficient load bearing capacity supplied for a reasonable snow load.

### Other Examples of Faulty Design

The Majestic theatre in Pittsburgh was an old remodeled church. A ceiling was introduced between the bottom chords of the olden wooden roof trusses. The ceiling joists were ample, their end supports were ample, the routine phase of the design was taken care of but the end wall was bulging and weak. This wall,

(Continued on Page 142)

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**Theatre Building**, Fifty-second and Chestnut streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. and Nixon Nirdlinger, care of architect. Stone, steel, concrete, brick, terra cotta. Too early for details.

**Chapel and Deanery**, Forty-second and Spruce streets, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Divinity School, Forty-second and Locust streets, Philadelphia. Working plans in progress. Too early for details.

**Residences (29)**, Sixty-eighth avenue, between Seventeenth and Bouvier streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, N. Axle, 2702 Sheridan street, Philadelphia. Brick, 2 stories, 20x39 feet, slag and tile roof, hardwood and cement floors, hot water heating, electric lighting, tile work. Plans in progress.

**Swimming Pool**, Nineteenth and Hunting Park avenue, Philadelphia, \$45,000. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Plans in progress.

**Swimming Pool**, Hedge and Orthodox streets, Philadelphia, \$50,000. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Plans in progress.

**Residences (9), Stores and Apartments (5)**, Kensington District, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owner, name withheld. Brick and stone, 2 stories, 16x65 feet, slag roof, oak and pine floors, hot water heating, electric lighting, iron work. Preliminary plans in progress.

**Building (int. alts.)**, 310 South Sixth street, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owner, M. Putter, care of architect. Plastering, hot water heating, electric lighting, tile work, metal lath, carpentry, mill work, flush bulks. Plans in progress.

**Haddington Playground**, Fifty-eighth and Westminster avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia.

Owners, Department of Public Welfare, Bureau of Recreation. Too early for details. Plans in progress.

**Apartment House**, Thirty-ninth and Walnut streets, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owner, name withheld. Brick and steel, 4 stories, 55x108 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work, iron work. Preliminary plans in progress.

**Residences (5), Store and Residence**, Rising Sun avenue and Ruscomb street, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Henry Franz, 5309 North Front street, Philadelphia. Brick, 2 stories, (5) 16x39 feet, (1) 16x49 feet, slag roof, hardwood and cement floors, hot water heating, electric lighting, tile work. J. Joseph McHugh, 1607 Race street, is taking sub-bids.

**Garage and Warehouse**, 5025 Market street, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, 20x16 feet, slag roof, cement floors, electric lighting, iron work. Architect is taking sub-bids.

**Store (alts.)**, 2858 Germantown avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, A. Berger, on premises. New front, cabinet work, hardwood floors, electric work, marble work, plate glass, metal ceilings, painting, flush bulks. Owner will build.

**Garage**, 930 South Bonsall street, Philadelphia. Architect, private plans. Owner, F. W. Hack, 912 South Twentieth street, Philadelphia. Brick, 1 story, 15x62 feet and 15x35 feet, slag roof, cement floor, electric light, iron work (heating and plumbing reserved). Owner is ready for general bids.

**Store and Apartments (4) and Garages (16)**, Sixty-fifth and Lancaster avenue, Overbrook, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owners, H. Greenberg and H. Slavitt, care of architect. Brick and steel, 2 stories, 16x60 feet, and 1 story, 10x20 feet, slag roof, oak and cement floors, metal tile, hot water heating, electric lighting, tile and marble work. Ready for bids in a few days.

**Residences (4)**, York road and Spencer street, Philadelphia. Architect, Reuben

Beard, 607 Shubert Building, Philadelphia. Owner, Charles J. Schneider, care of architect. Brick and steel, 2 stories, 15x40 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Architect will be ready for bids in ten days.

**Bank Building**, Forty-ninth and Baltimore avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Belmont Trust Co., care of architect. Brick, cut stone, steel and reinforced concrete, 1 story, 48x73 feet, slag roof, concrete and pine floors, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal doors, iron work. Architect taking new bids due March 2nd.

**Restaurant and Residence**, 4213 Ridge avenue, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, William Benham, East Park Drive and Calumet street, Philadelphia. Brick and steel, 2 stories and basement, 72x18 feet, slag roof, oak and pine floors, metal lath, tile work, bond, iron work (heating and lighting reserved). Architect taking bids due March 3rd.

**Y. M. H. A.**, Broad and Pine streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Y. M. H. A., A. M. Greenfield, chairman, Fifteenth and Chestnut streets. Reinforced concrete, steel, cut stone, brick and limestone, 4 stories and basement, 140x150 feet, slag and tile roof, maple, oak and cement floors, hollow tile, safety treads, roof ventilators, cold water painting, waterproofing and dampproofing, terra cotta, wire work, metal lath, tile and marble work, rolled steel sash and skylights, kalamein doors, bond, iron work, floor hardener, iron stairs (heating, electric work, plumbing and elevators reserved). Architect taking bids due March 12th.

**Home Building**, Broad and Wood streets, Philadelphia. Architects, Andrew J. Sauer Co., Denckla Building, Philadelphia. Owners, Philadelphia Lodge, No. 2, B. P. O. E., Philadelphia. Brick, cut stone, reinforced concrete, granite, limestone, alternate for cast-iron, 14 stories, 198x164 feet, Spanish tile and composition roof, cement, maple, oak and pine floors, elevators, metal weather strip, waterproofing, terra cotta, iron work and stairs, bond, tin clad and kalamein doors,

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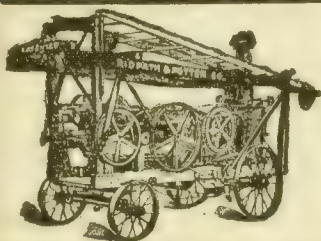
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**Building**, Northwest Corner Ridge and Midvale avenues, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, Morris Magill, 4176 Ridge avenue, Philadelphia. Brick and steel, 2 stories, 27x20 feet, slag roof, pine floors, metal lath, marble work, bond, iron work. Architect taking bids due March 3rd.

**Catholic High School**, Forty-ninth and Chestnut streets, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Boys' Catholic High School, on premises. Brick, steel, reinforced concrete and cut stone, 3 stories and basement, 248x108 feet (heating and plumbing reserved), metal lath, tile and marble work, hollow metal sash, rolled steel skylights, hollow metal doors, hollow tile, roof ventilators, waterproofing, bond, iron work. Architect taking bids due March 3rd at 11 A. M.

**Schools (2)**, Seventeenth and Lindley avenue and Fifty-fourth and Berks streets. **Schools (alts.)**, various locations, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. No. 1, general construction, lighting, heating, plumbing and ventilating. No. 2, painting, roof repairs, partitios, etc. Owners taking bids due March 8th at noon.

**Residences and Garages (2)**, Sixty-fifth avenue and Broad street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, W. W. Moore, Sixty-fifth avenue and Broad street, Philadelphia. Brick, stone, steel and concrete, 2½ stories, 36x38 feet and 9x19 feet, slate roof, oak, pine and cement floors, waterproofing, iron work, hot water heating, electric light. Architect taking bids due March 2nd.

**Addition of Church Building**, Sixty-third and Malvern avenue, Overbrook, Philadelphia. Architect, George E. Savage, Witherpoon Building, Philadelphia. Owners, Overbrook Baptist Church, on premises. Stone and cut stone, 1 story, 54x56 feet, slate and composition roof, pine floors, steam heat, electric lighting, metal lath, tile work, bond, iron work. Architect taking bids due March 12th.

**Residence**, Bustleton, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owner, William Lee, care of architect. Stone and cut stone, 2½ stories, 22x30 feet, slate, slag and metal roof, pine floors, hot water heating, electric lighting, cement work. Architect is taking preliminary bids.

**Supplies**, Navy Yard, Philadelphia. Owners, Department of Supplies and Accounts,

Navy Department, Washington, D. C. Delivering lumber, wire rope. Proposals may be obtained from Supply Officer, Navy Yard, Philadelphia, or David Potter, Paymaster General of the Navy, Washington, D. C. Owners taking bids due March 6th.

**Asphalt Paving**, Philadelphia. Bids opened February 20th at noon. Low bidders: Almont street, Buckius to Ash street, \$5,080.38; Frank Mark Cont. Co., 2820 North Twenty-first street, Philadelphia. Barbara street, Moyamensing avenue to Fifteenth street, \$2,413.50; Bermuda street, Orthodox street to Duncan street, \$6,688.50; Broad street, from Seventieth avenue to Fracker street, \$20,655.40; Howard street, from Clearfield to Lippincott street, \$2,168.75; Marvine street, Clarkson avenue to Sommerville street, \$5,181.80; Mulberry street, from Harrison to Wakeling street, \$3,008; Oxford street, from Columbia avenue to Fifty-fourth street, \$7,008.50; Robinson street, from Haddington street to Jefferson street, \$5,032; Barber Asphalt Co., Land Title Building, Philadelphia.

**Paving with Redressed Granite Block**—Sansom street, Twenty-third to Twenty-fourth, \$2,533; Acchione & Canuso, 804 South Twelfth street, Philadelphia. Fifteenth street, Spring Garden street to Girard avenue, \$32,493.20; John Mehan & Sons, 815 West Dauphin street.

**Curbing and Footways**—Reed & O'Rourke, 1213 Cherry street, \$9,376. District 1, Fred Borrelli, 6413 Callowhill street, \$14,670. District 2, Fred Borrelli, 6413 Callowhill street, \$6,005.42. District 3, Ryan Const. Co., Thirty-third and Gray's Ferry avenue, \$11,511.45. District 6, United Paving Co., Colonial Trust Building, \$20,631.50. Districts 5 and 7, United Paving Co., Colonial Trust Building, \$8,462.50.

**Low bidders on Branch Sewer** opened February 21st at noon. Gray's avenue, Forty-ninth street to Fifty-first street, \$5,697.55. A. De Vito, 1721 Hicks street, Philadelphia.

**Main Sewers**. Charles street, Comly street to Duffield street, \$39,985.08; The O'Neill Co., 127 East Mermaid Lane, Philadelphia. Ashdale street, 171 feet Southwest of Fisher to Fisher street, \$14,563.84; A. Pascuzzi, Lincoln Building, Philadelphia. Pratt street, from 70 feet Southwest of Lorretto street to Lorretto street, \$5,452; A. De Vito, 1721 Hicks street, Philadelphia.

**Grading and Foundations**, Harrowgate Incinerating Plant, G and Ramona street, Philadelphia (Schedule G). Owners, Department of Public Works, Bureau of Highways, 216 City Hall. Lowest bidder: George F. Dobbin, 1020 South Forty-seventh street, Philadelphia. 18 Items: Nos. 1, \$1; 2, \$18; 3, \$15; 4, \$11; 5, 7 cents; 6, \$500; 7, 50 cents; 8, \$3; 9, \$3; 10, \$3.50; 11, \$4; 12, \$5; 13, \$7;

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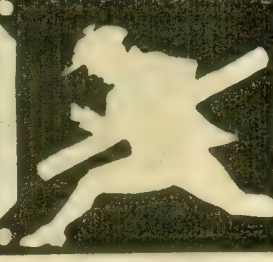
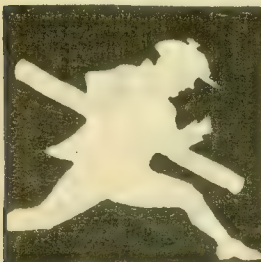
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**Residences and Stores (3) and Residences (4), Garages (3),** Martin's Mill road and Unruh street, Philadelphia, \$38,200. Owner, Jacob Bender, 1817 South Fourth street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hot water heat, electric light. Owner will build.

**Warehouse (add.),** 4635 Mulberry street, Philadelphia, \$8,000. Architect, private plans. Owners, Castor Brothers, on premises. Brick, second story add., 40x40 feet, slag roof, electric work. Owner will build.

**Apartment Houses (6),** South side Chestnut street, West of Forty-seventh. Architect, private plans. Owners, T. J. & J. R. Whelan, Southeast Corner Seventeenth and Summer streets. Brick, 4 stories, 20x72 feet, slag roof, hot water heat, electric light, hardwood and pine floors. Owners will build.

**Residences (13),** North side Pleasant avenue, West of Chew, \$5,200 each. Architect, private plans. Owner, Alfred C. Lechler, 3705 Germantown avenue, Philadelphia. Brick, 2 stories, (1) 14½x49 feet, and (12) 14x24 feet, 11x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Bridge,** Southwest Corner Wilde and Leverington streets, \$5,000. Engineer, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Fred Pearson & Co., on premises. Concrete. Engineer will build.

**Residences (2),** 4539-41 Bermuda street, Philadelphia, \$3,800. Architect, private plans. Owner, Alex. Jastzembki, 4490 Almond street, Philadelphia. Brick, 2 stories, 14x28 feet, 16x10 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

**Residences (9),** East and West side Newkirk street, West of Wharton. Architect, private plans. Owner, H. F. Dinkelocker, 1612 McKean street, Philadelphia. Brick, 2 stories, 14x30 feet, 9x9 feet, slag roof, hot water heat, electric light. Owner will build.

**Apartment (alts.),** 1518 Diamond street, Philadelphia, \$2,500. Architect, private plans. Owner, Park Lyons, 128 East Huntingdon street, Philadelphia. General alterations. Owner will build.

**Building (alts.),** 1220-24 Sansom street, Philadelphia, \$2,500. Engineer, P. M. Sax, Penfield Building, Philadelphia. Owners, Bailey, Banks & Biddle Co., 1218 Chestnut street. General alterations. Engineer will build.

**Miscellaneous Work, Morgue,** 1309 Wood street, Philadelphia. Owners, Coroner's Department, 604 City Hall, Philadelphia. Relining boxes with copper, resurfacing same with wood, resetting in cement and concrete, slag roof to building, refrigeration alterations. Owners taking bids due March 1st at noon.

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**Asphalt Paving—**Florence avenue, from Fifty-fourth to Fifty-fifth street, \$6,925.25; Ridley street, from Limekiln pike to Twentieth street, \$2,652.85; Rosehill street, from Rockland street to Ruscomb street, \$3,051; Yocum street, from Shields street to Sixty-eighth street, \$5,834.85; Fifty-sixth street, from Summer street to Vodges street, \$9,089.70; Barber Asphalt Paving Co., Land Title Building, Philadelphia. Price street, from Chew street to McMahon avenue, \$15,019; Eastern Paving Company, Colonial Trust Building, Philadelphia. Tilton street, from Ontario street to Schiller street, \$2,533.85; Mack Paving Co., Nicetown Lane, Philadelphia.

**Asphalt Repaving—**Callowhill street, from Broad street to Fifteenth street, \$6,288.44; Union Paving Co., Thirty-fourth and Spruce streets, Philadelphia. Callowhill street, from Fifteenth street to Parkway, \$39,222.90; Barber Asphalt Paving Co., Land Title Building, Philadelphia.

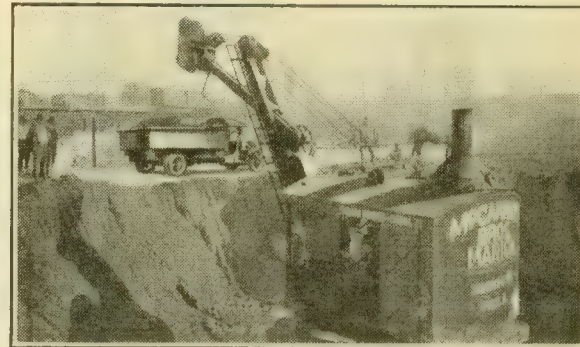
**Repaving with Granite Block—**Thirteenth street, from South street to Walnut street, \$42,610.45; Centroni & Mezzola, Lincoln Building, Philadelphia; Sixteenth street, from Locust street to Arch street, \$21,151.50; McLaughlin & Flood, 2005 Fitzwater street, Philadelphia.

**Residences (20),** Twenty-sixth and Seybert streets, \$77,600; **Residences (20),** Twenty-sixth and Ingersoll streets, \$77,600; **Residences (10),** Twenty-sixth and Master streets, \$45,900; **Residences (10),** Twenty-seventh and Thompson streets, \$45,900. Owner, George A. Nahm, 2736 Girard avenue, Philadelphia. Brick, 2 stories, various sizes, hot water heating, electric lighting, slag roof. Owner will build.

**Residence,** Northeast Corner Lawnton and Medary avenue, Philadelphia, \$10,000. Architect, private plans. Owner, Gilbert S. Smith, Sixty-ninth avenue and Tenth street, Philadelphia. Stone, 2 stories, 43x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (6),** North side Sansom, West of Fifty-fourth street, \$49,500. Architect, private plans. Owners, Schlosberg Brothers, 445 North Fifty-second street, Philadelphia. Brick, 2 stories, (1) 17x80 feet, and (5) 17x40 feet, 14x40 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (36),** Fifty-sixth and Arlington avenue, Philadelphia, \$146,000. Architect, private plans. Owner, R. H. Pugh, Ridge and Girard avenues, Philadelphia. Brick, 3



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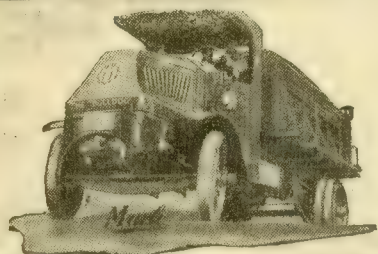
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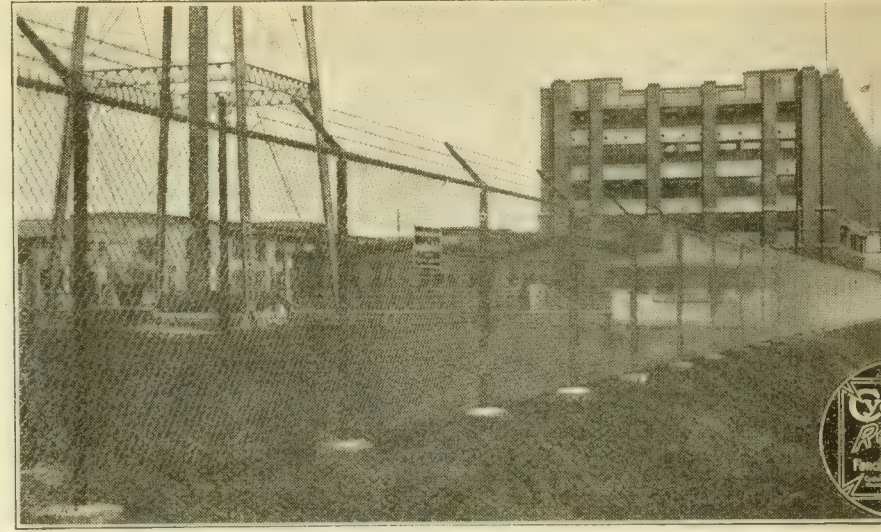
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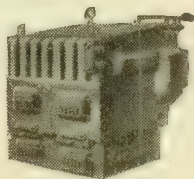
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stories, 16x30 feet, 12x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Building (alts.)**, Southwest Corner Broad and Dickinson streets, Philadelphia. Archi-

teets, Richard R. Neely and E. William Martin, 2126 Pine street, Philadelphia. Owner, G. W. Fehr, care of architects. Hot water heating, electric lighting, composition floors, plate glas. Architects taking bids.

Wood street, Philadelphia.

**Residence and Garage**, Bleigh and Whitaker streets, \$5,500. Architect, private plans. Owner, Harry S. Morrell, 4525 Salmon street, Philadelphia. Frame, 2 stories, 24x40 feet, and garage, 9x16 feet, electric lighting, tile work, hardwood and cement floors. Contract awarded to Wintz Brothers, 1618 Sellers street.

**Store and Office (alts.)**, Southeast Corner Twenty-first and Ludlow, \$3,000. Architect, private plans. Owners, George Hynes & Brother, 8 North Twenty-first street, Philadelphia. General alterations, flush bulks. Contract awarded to Edward Cunningham, 2219 Race street, Philadelphia.

**Residence**, 6304 Woodland avenue, and **Residence and Store (alts. and add.)**, 6302 Woodland avenue, \$11,500. Owner, B. Balen, 6300 Woodland avenue, Philadelphia. Brick, 2 stories, 15x85 feet, slag roof, electric light, general alterations. Contract awarded to M. B. Stackhouse, 6081 Reinhard street.

**Apartment and Store (add. and alts.)**, 5523 Hunters avenue, \$5,000. Architect, private plans. Owner, Barnet Rubin, 6227 Pine street, Philadelphia. Brick, 1 story, 17x13 feet, 1 story, 15½x17 feet, slag roof, electric lighting, hardwood floors, general alterations. Contract awarded to Joseph Eskin, 4106 Westminster avenue.

**Storage Building (add.)**, 1103-05 Dunton street, \$8,000. Architect, private plans. Owners, The Ajax Metal Co., on premises. Brick,

## Contracts Awarded

### Scope of Contract and Successful Bidders; “Inside” Information for the Material Man and Interior and Exterior Fitter.

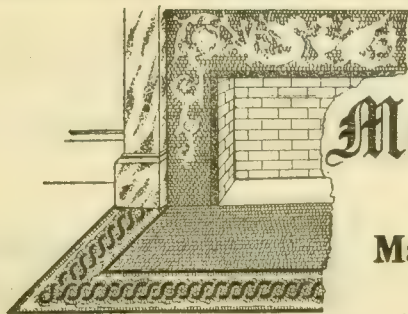
**Office Building**, 726 Sansom street, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Benjamin Abrams, Bellevue Court Building, Philadelphia. Brick, concrete and granite, 5 stories and basement, 75x18 feet, slag roof, cement and maple floors, hollow tile, terra cotta, iron work, kalamein doors, rolled steel sash, rolled steel skylights, tile, marble and terrazzo work, steam heating, electric lighting, metal lath (elevators reserved). Contract awarded to Modern Const. Co., 242 Morris street.

**Apartments (alts.)**, 1834 Diamond street, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owner, M. W. Rich, on premises. Brick, 1 story, 10x13 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Charles H. Booker, 2257 North Uber street, Philadelphia.

**Residence**, Southwest Corner Seventy-ninth and Botanic avenue, Philadelphia, \$9,900. Architect, private plans. Owner, M. Bishker, on premises. Brick, 2 stories, 18x60 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to A. Slovak, 3035 Edgemont road, Philadelphia.

**Building (alts.)**, Northeast Corner Brill and Richmond streets, \$5,000. Architect, private plans. Owners, Robert H. Foerderer Glue Co., on premises. General alterations. Contract awarded to Edward T. Bender, 6014 Torresdale avenue.

**Residence and Store (alts. and add.)**, 233 South Thirteenth street, \$7,000. Architect, private plans. Owner, D. D. Sapliner, 1305 Walnut street, Philadelphia. General alterations and additions, carpentry, electric work. Contract awarded to Lam Building Co., 1001



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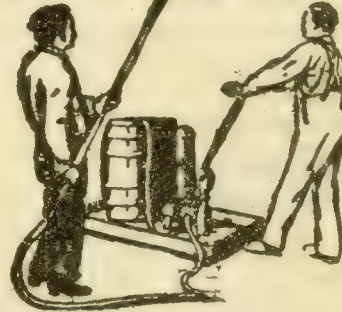
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1 story, irregular size, slag roof, cement floors. Contract awarded to M. Ward Easby, 1814 Chestnut street.

**Garage and Store**, Southwest Corner Eleventh and Windrim avenue, \$5,500. Architect, private plans. Owner, Adolph J. Schenck, 5218 North Eleventh street, Philadelphia. Brick, 1 story, irregular size, slag roof, pine and cement floors, electric light. Contract awarded to A. P. Simpson & Son, 616 West Rittenhouse street.

**Residence and Store (alts. and add.)**, 223 South street, \$2,700. Architect, private plans. Owner, Bertha Stucator, on premises. Brick, 2 stories, 14x11 feet, slag roof, pine floors, electric lighting, general alterations. Contract awarded to Dominick Iero, 519 Christian street.

**Residence and Store (alts. and add.)**, 210 East Tabor road, \$7,000. Architect, private plans. Owner, Harry Akalbach, on premises. Brick, 1 story, 16x36 feet, slag roof, electric lighting. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

**Residences (5)**, South side Pratt street, East of Large, \$7,000 each. Architect, private plans. Owner, Frederick M. Negley, 5537 Frankford avenue, Philadelphia. Brick, 2 stories, 18x40 feet, slag roof, electric light, hardwood and pine floors. Contract awarded to C. Theo. Beechwood, Jr., 5537 Frankford avenue.

**Residence**, North side Hermit street, East of Ridge avenue, \$6,500. Architect, private plans. Owner, Mary A. Schock, 209 East Lauriston avenue, Philadelphia. Brick, 3 stories, 30x40 feet, 11x12 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Charles S. Schock, 209 East Lauriston avenue.

**Residences (2)**, East side Frankford avenue, North of Bridge, \$5,000. Architect, private plans. Owner, Harry A. Dawson, 5537 Frankford avenue, Philadelphia. Brick, 2 stories, 18x25 feet, 14x35 feet, slag roof, oak and pine floors, electric light. Contract awarded to George Betzer, 640 East Hilton street, Philadelphia.

**Residence (add.)**, 1225 North Myrtlewood street, Philadelphia, \$2,500. Architect, private plans. Owner, Charles Bauers, 1241 North Myrtlewood street, Philadelphia. Brick, 2 stories, 12x9 feet, slag roof, pine floors. Contract awarded to William J. Russell, 1210 North Twenty-ninth street, Philadelphia.

**Residences and Stores (3) (alts. and add.)**, 915-17-19 North Sixty-sixth street, \$4,300. Architect, private plans. Owner, Harry Geer, 2775 Girard avenue, Philadelphia. General alterations. Contract awarded to Max Specker, 2530 South Marshall street.

**Garage**, 339 East Wister street, Philadelphia, \$4,000. Architect, private plans. Owner, Paul M. Fastener, on premises. Brick, 1 story, irregular size, slag roof, cement floors, electric lighting. Contract awarded to A. Klits & Son, 293 East Brighthurst street.

**Office**, Southwest Corner Eighteenth and Windrim avenue, Philadelphia, \$3,000. Architect, private plans. Owners, Fox Gun Co., on premises. Brick, second story add., 18x31 feet, electric light, pine floors. Contract awarded to H. P. Wenner, 3245 Germantown avenue.

**Garage (add.)**, 1204-06 North Eighth street, Philadelphia, \$3,000. Architect, private plans. Owner, Al Cohen, 3700 Chestnut street, Philadelphia. Brick, second story add., 18x23 feet, slag roof, cement floors. Contract awarded to H. Glazer, 1557 North Sixth street, Philadelphia.

**Swimming Pool (alts.)**, Southwest Corner Eighteenth and Arch streets. Architect, private plans. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Concrete work. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

**Residence (alts.)**, 5535 Pulaski avenue,

Philadelphia, \$2,117. Architect, private plans. Owner, Henry T. Mason, on premises. General alterations. Contract awarded to Fred Elvidge & Sons, 5522 Germantown avenue.

**Building (alts.)**, Northwest Corner Twenty-third and Manning streets, \$2,000. Architect, private plans. Owners, Crane Ice Cream Co., on premises. General alterations. Contract awarded to Charles H. Casper, Denckla Building, Philadelphia.

**Store and Apartments (alts.)**, 1434 West Cumberland street. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, Rudolph Sternberg, 2724 West Girard avenue, Philadelphia. New front, plate glass, carpentry, mill work, electric work, painting. Contract awarded to H. M. Shandles, 2333 South Front street, Philadelphia.

**Residences and Stores (2) (alts. and add.)**, 5833-35 Germantown avenue, Philadelphia, \$18,600. Architect, private plans. Owners, Kalman & Marinow, on premises. Brick, 2 stories, 16x51 feet, slag roof, oak and pine floors, electric light, tile work. Contract awarded to John Marinucci, 1118-20 Dickinson street.

**Auto Service Station (alts.)**, 1204-12 Frankford avenue, \$3,000. Architect, private plans. Owners, Harry S. French, Inc., on premises.

**Club House**, Springfield, Pa. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, E. J. Kreitzburg, 1345 Arch street, Philadelphia. Frame, 1 story, 30x30 feet, shingle roof, hardwood floors, electric lighting. Owner will build. Plans in progress.

**School (Consolidated)**, Chadds Ford, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School Board of Birmingham Township, Pa. Stone, 2 stories. Working plans in progress. Will take bids in a few weeks.

**Bungalow**, Bangor, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, T. L. Ditchett, Bangor, Pa. Frame, 1½ stories, 30x36 feet, shingle roof, pine floors, electric lighting. Plans in progress.

**Residence (alts.) to Apartment**, Bethlehem,

General alterations. Contract awarded to T. Henry B. Saunders, 1234 Marlborough street.

**Two-Family Residence (add.)**, 722 North Forty-second street, \$2,500. Architect, private plans. Owner, J. M. Carter, on premises. Brick, first and third story add., 10x9 feet and 10x20 feet, slag roof. Contract awarded to W. A. Evitts, Forty-fourth and Locust streets.

**Shop (alts.)**, 2517 West Fletcher street, Philadelphia, \$2,000. Architect, private plans. Owner, W. Scull, on premises. General alterations. Contract awarded to Richard McGlathery, 2306 North Twenty-sixth street.

**Store and Apartments (alts. and add.)**, 1136 Columbia avenue, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Joseph Breitman, on premises. General alterations and additions, electric work, hardwood floors, plumbing, painting, carpentry, mill work. Contract awarded to Charlick & Chapman, 5227 Jefferson street.

**Store (alts.)**, 2849 North Twenty-second street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, care of builder. New front, cabinet work, hardwood floors, electric work, marble work, plate glass, metal ceilings, painting, carpentry, flush bulks. Contract awarded to Max Siegel, 1837 North Franklin street.

Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Mr. Dolphin, care of architect. Partition work, steam heat, electric light, hardwood floors, general interior alterations. Plans in progress.

**Bungalow**, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Thomas Usherwood, 312 Washington street, Royersford. Frame and stucco, 1 story, 26x36 feet (heating reserved), stained shingle roof, oak and yellow pine floors, plumbing, electric lighting, bond, concrete foundations. Plans in progress.

**Apartment (alts. and add.)**, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem. Owner, William L. Athenbach, Broad and Avenue A, Bethlehem, Pa. Brick, 1 story, 25x30 feet, slag roof, pine floors, vapor heat, electric light, gen-

## PENNSYLVANIA

# Construction News

On the Ground When Wanted

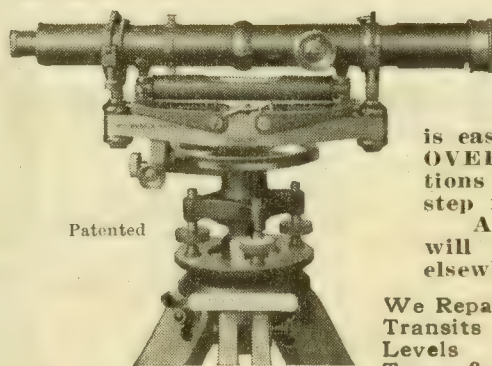
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eral alterations. Plans in progress. Owner will build.

**Residence, Bethlehem, Pa.** Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owner, J. J. Shonk, 1747 West Union street, Bethlehem, Pa. Stucco, 2½ stories, 36x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owner will build.

**Church, Mt. Carmel, Pa.** Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Rev. M. Mayer, C. S. S. T., Mt. Carmel, Pa. Cut stone, castone and steel, 1 story, 57x101 feet, slate roof, (alternate) Spanish tile roof, maple floors, electric lighting, metal lath, tile and marble work, bond, iron work (heating reserved). Architect taking bids due March 7th at noon.

**Twin Residence, Merion, Pa.** Architect, private plans. Owner, Donald Flanigan, 1222 Chancellor street, Philadelphia. Hollow tile and frame, 2½ stories, 50x35 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will build and is ready for sub-bids.

**Residence, Windber, Pa.** Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Berwind Coal Co., Commercial Trust Building, Philadelphia. Frame, 2½ stories, 38x26 feet, composition slate roof, hardwood floors, steam heat, electric lighting. Plans in progress. Will be ready for bids in three weeks.

**Residence and Garage, Villa Nova, Pa.** Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, George Farnam Brown, 317 South Twenty-second street, Philadelphia. Stone, cut stone and steel, 2½ stories, 36x35 feet, wing 18x30 feet, and 1½ stories, 14x21 feet, slate roof, oak, pine and cement floors, hot water heating, electric light, metal lath, tile work, iron work. Architect taking bids due March 5th.

**Sales and Service Building, Bryn Mawr, Pa.** Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Neel Cadillac Co., 152 North Broad street, Philadelphia. Brick, cut stone, steel, castone and limestone, 1 story, 85x175 feet, Johns Manville roof, cement floors, metal lath, rolled steel sash and skylights, iron work. Architect taking bids due March 2nd.

**Stores (2), Apartment and Garage, Fourth and Tilghman streets, Allentown, Pa.** Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, Mario Dal Lado, Allentown, Pa. Brick, 3 stories, 40x140

feet, asphalt roof, hardwood and concrete floors (heating and electric work reserved), tile work, steel sash, safety treads, copper work, ornamental iron work. Architects taking bids due March 6th.

**Department Store (add.), Easton, Pa.** Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa. Owner, William Laubach, 320 Northampton street, Easton, Pa. Brick, steel, 7 stories, 26x115 feet, slag roof, maple floors, metal lath, rolled steel sash, skylights, ornamental iron work. Architect taking bids due March 10th.

**School, Trevoise, Bucks County, Pa.** Architect, Oscar E. Martin, Doylestown, Pa. Owners, Bensalem Township, C. C. Markley, chairman, Andalusia, Pa. Frame, 1 story, 84x42 feet, slag roof, maple floors, steam heat, electric light. Architect taking bids due March 2nd at 7 P. M.

**Grade School, St. Cloud and Walnut streets, Allentown, Pa.** Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Allentown School Board, Allentown, Pa. Fireproof, 3 stories, 38x200 feet, flat roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, hot air heat, electric light, metal lath, tile work, skylights, iron stairs, ornamental iron work. Owners taking bids due March 13th.

**Factory, Allentown, Pa.** Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, J. J. Taylor, Swissonia Knitting Mills, Allentown. Fireproof, 3 stories, 66x200 feet, built-up roof, concrete and wood floors, freight elevators (heating, plumbing and electric work reserved). Architects taking bids due March 9th.

**Church and Parsonage and Sunday School, Lebanon, Pa.** Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Evangelical Lutheran Church of the Holy Trinity, Lebanon, Pa., care of Rev. C. E. Keim, Lebanon, Pa. Stone, 1 story and basement and 2 stories and basement. Architects taking bids due March 15th at 6 P. M.

**Stores (3) and Apartments, Ardmore, Pa.** Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Harrison, care of architect. Brick and limestone, 2 stories, 50x58 feet, slag roof, hardwood floors, metal ceilings, flush bulks, tile work, hot water heating, electric lighting, marble work. Architect taking bids.

**Store and Residences (twin), Brookline, Pa.** Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owners, Cob-

bia Brothers, Brookline, Pa. Brick, 2 stories, 32x50 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Owner taking bids.

## Pennsylvania Contracts Awarded

**Maternity Building, Bryn Mawr, Pa.,** \$135,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Bryn Mawr Hospital, Bryn Mawr, Pa. Reinforced concrete, brick, cut stone and steel, 2 stories and basement, 40x117 feet (connecting corridor, 65x10 feet separate bids), asbestos asphalt roof (alternate built-up roof), cement, cork and maloced floors, elevators, dumb waiters, metal weather strips, iron work, iron stairs, steel and kalamein doors, tile, marble and terrazzo work, metal lath, steam heating, electric lighting. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

**Signal Tower and Power House, PH and P Junction, East Mulberry street, Harrisburg, Pa.** Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick and steel, 2 and 1 stories, 17x34 feet and 17x22 feet, slate and built-up roof (asbestos), cement floors, metal window guards, iron work, iron stairs, bond, hollow metal doors, hot water heat, electric lighting. Contract awarded to A. L. Carhart, Penfield Building, Philadelphia.

**Store and Apartments (3), 15-17-19 Lansdowne avenue, Lansdowne, Pa.** Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, Daniel Barrow, Lansdowne, Pa. Brick, 2 stories, 16x45 feet, slag roof, pine floors, hot water heating, electric lighting, plate glass. Contract awarded to Lansdowne Const. Co., Lansdowne, Pa.

**Residence No. 1, Merion, Pa.** Architect, Charles F. Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 70x31 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to John E. Kearney, 34 South Sixteenth street, Philadelphia.

**Laundry (add.), Allentown, Pa.** Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Brown's White City Laundry, 124 North Tenth street, Allentown. Brick, mill construction, 2 stories, 100x40 feet, slag roof, maple floors, electric light. Contract awarded to W. H. Gangwere & Co., Allentown, Pa.

**High School, Enola, Pa.,** \$54,773. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, East Pennsboro Township School Board, Mr. Hoffman, secretary, Enola, Pa. Brick, 2 stories, 37x115 feet and 42x92 feet, composition roof, pine floors, hot air heat, electric light, hollow tile, metal

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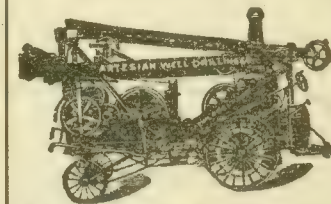
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# TILES

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PHILADELPHIA

Main 8918



lath, safety treads, roof ventilators, skylights. Contract awarded to J. C. Strickner, Enola, Pa.

**Manufactory and Power House**, Kepler, Northampton County, Pa. Architects, Lockwood & Greene Co., 101 Park avenue, New York. Owners, Binney & Smith, 41 East Forty-second street, New York. Reinforced concrete, brick and steel, 4 stories, 80x100 feet, and 1 story, 40x41 feet, wing 18x11 feet, Barrett roof, cement and granolithic floors, hollow tile, iron work and stairs, metal lath. Contract awarded to Brillhart Brothers, Bethlehem, Pa.

## New Jersey Construction News

**Factory (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owners, Mercer Pottery Co., 39 Muirhead street, Trenton. Steel and brick, third story add., 35x100 feet. Too early for details.

**Apartment**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Edward Cook, Broad Street Bank Building, Trenton, N. J. Steel, semi-fireproof, 6 stories, 20-family apartment. Too early for details.

**School**, Morrisville, N. J. Architects, Fowler & Seaman, Fitzcharles Building, Trenton, N. J. Architect, associate, T. B. Stockham, Morrisville, N. J. Owners, Morrisville School Board, Mr. Taylor, secretary, Morrisville, N. J. Brick, hollow tile and steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine floors (heating, electric work and plumbing reserved), hollow tile, safety treads, metal lath, rolled steel sash, fire doors, waterproofing, bond, steel stairs, ornamental iron work. Plans in progress.

**Factory (add.)**, Morrisville, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Robertson Art Tile Co., Pennsylvania avenue, Morrisville, N. J. Brick, steel, 2 stories, 50x110 feet. Plans in progress. Too early for details.

**Store**, North Broad street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Julius Schaeffer, 510 Riverside avenue, Trenton. Fireproof, brick, steel, reinforced concrete, 4 stories, 125x27 feet, slag roof, concrete floors, hot water heat (electric work and heating reserved), tile work, metal lath, roof ventilators, rolled steel sash and skylights. Revised plans in progress.

**High School**, Ocean City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ocean City School Board, care of architect. Fireproof, 3 stories, slag roof, hardwood floors, hollow tile, metal lath, electric light, tile and marble work, roof ventilators, waterproofing and dampproofing, ornamental iron work. Ready for bids due March 8th.

**Court House (alts.)**, Camden, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Board of Chosen Freeholders of Camden County, James F. Walton, chairman, Court House, Camden, N. J. Painting offices of court rooms, electric work, changing partitions, bond, etc. Owners taking bids due March 10th at 11 A. M.

**Parkway School**, Ewing Township, Mercer County, N. J. Architect, R. A. Schuman, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, C. W. Latham, secretary, care of architect. Brick, 1 story and basement, 115x127 feet, slag roof, pine and

hardwood floors (heating, electric work and plumbing reserved), metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, bond, concrete stairs. Architect taking bids due March 1st.

**School**, Ewing Township, Mercer County, N. J. Architect, W. A. Schuman, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, G. W. Latham, secretary, care of architect. Brick, 1 story and basement, 40x115 feet, slag roof, pine floors, steam heat, electric light, metal lath, safety treads, roof ventilators, metal lath, waterproofing and dampproofing, concrete work. Architect taking bids due March 1st.

**Office Building**, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, A. Freeman, 1516 Atlantic avenue, Atlantic City. Brick, 5 stories, 40x140 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, elevators. Architect taking bids due as soon as possible.

**Residence (add.)**, Woodbury, N. J. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, S. Polsky, 240 South Broad street, Woodbury, N. J. Brick, 2 stories, 20x30 feet, slag roof, sheet metal work. Owner is ready for bids.

## New Jersey Contracts Awarded

**Residence and Stores (5) (repairs)**, Factory street, Trenton, \$30,000. Architect, private plans. Owner, S. Shankman, care of builder. General fire repairs. Contract awarded to S. Tietz, 252 Jackson street, Trenton, N. J.

## Delaware Construction News

**Residence (alts. and add.)**, Kennett Pike, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Stone, 2½ stories, 24x50 feet, slate roof, hardwood floors, tile work, electric light, general alterations. Plans in progress.

**Residences (4)**, Twenty-third and Lamotte streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owners, City Real Estate Co., care of Mr. Lynch, 612 West Ninth street, Wilmington, Del. Brick, 2½ stories, 22x30 feet,

slag, tin and slate roof, pine floors, hot water heat, electric light. Plans in progress.

**Hospital**, Clayton street, between Seventh and Eighth streets, Wilmington, Del. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Sisters of Third Order of St. Francis, Glen Riddle, Pa. Reinforced concrete, steel, brick and cut stone, 3 stories and ground floor, 175x41 feet, wing 35x45 feet, tile roof, cement, composition and oak floors, metal lath, elevators, iron work, bond, hollow metal doors, rolled steel sash and skylights, tile and marble work, steam heating, electric lighting. Architect taking bids due March 6th.

**Residence**, Dover, Del. Architect, private plans. Owner, Dr. C. M. Wharton, Dover, Delaware. Brick, 2½ stories, 30x37 feet, asbestos shingle or slate roof, hardwood floors, steam heat, electric light, tile work. Hope & Harmann, Dover, Del., taking bids due March 10th.

**Residence**, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, G. H. Markell, 830 Jackson street, Wilmington, Del. Brick, 3 stories, 45x30 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved), tile and marble work. Architect taking bids due as soon as possible.

## Delaware Contracts Awarded

**Store (alts. and add.)**, 702 Market street, Wilmington, Del. Architect, J. A. McKibbin, Industrial Trust Building, Wilmington. Owner, Max Keil, 2103 Boulevard, Wilmington, Del. New plate glass show windows, parquet floors, tile work, steel work. Contract awarded to C. J. Dougherty, 2515 West Eighteenth street, Wilmington, Del.

## Miscellaneous Construction News

**Church**, Norwalk, Conn. Architects, Fowler, Seaman & Co., Fitzcharles Building, Trenton, N. J. Owners, Episcopal Church, Rev. Lewis Howell, Norwalk, Conn. Stone, 1 story and basement, 60x130 feet, slate roof, stone or tile floors, vapor heat, electric light, tile, marble and terrazzo work. Plans in progress.

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## Proposals

### SEALED PROPOSALS

Notice is hereby given that sealed bids will be received by James F. Walton, Chairman of the Court House Committee of the Board of Chosen Freeholders of Camden County and opened and read in public at a public hearing of said Committee to be held on Saturday, March 10th, 1923, at 11 A. M., in the Freeholders' Room in the Court House, Camden, N. J., for changes in partitions, electric lighting, etc., of offices of Register of Deeds, Camden County, N. J., in accordance with plans and specifications on file in the office of the Clerk, Court House, Camden, N. J., copies of which may be had by application at the office of Rankin, Kellogg and Crane, 1012 Walnut Street, Philadelphia, Pa.

Bids must be enclosed in sealed envelopes, bearing the name and address of bidder, and the words, "Bids for changes in partitions, electric lighting, etc."

Each bid must be accompanied by a certified check in a sum not less than ten per cent of the bids submitted.

A Surety Bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also include in his bid a bid certificate from a surety company.

The Board of Chosen Freeholders reserve the right to reject any and all bids.

JAMES F. WALTON,

Chairman, Court House Committee.

Dated, February 19, 1923.

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Bids must be enclosed in sealed envelopes, bearing the name and address of the bidder and the words, "For Painting, etc."

Each bid must be accompanied by a certified check in a sum not less than ten per cent. of the bid submitted.

A surety bond will be required in the full amount of the contract for the proper completion of the work, and the bidder shall also include in his bid a bid certificate from a surety company.

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**Repetition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.**

(Continued from Page 132)

in its bulging condition, was reinforced by a long channel, with web horizontal, curved to fit the wall, the channel being anchored at the ends into the wall itself.

Engineering judgment would have dictated a new wall. Also engineering judgment would have perceived the progress of failure when the end wall showed unmistakable signs of continued bulging. An engineer, examining this building before a large section of the ceiling dropped on the seats and smashed to splinters, while seats just behind these were occupied by spectators, would have dropped his book of tables and rules and devoted his attention to the serious problem presented. He would have seen to it that measures were taken at once to avert the calamity.

### Double-Shell Wall Failure

A school building was being constructed with bearing walls consisting of outer shells of hard face brick, non-absorbent, with thin mortar joints. The inner shells were absorbent bricks with thick mortar joints and tile, also with thick mortar joints. When the load came on these walls, one of them buckled out very badly, because the inner shell yielded, and the outer shell received the load, which it was too thin and high to take.

Another wall collapsed dropping a large portion of the floor, which was reinforced concrete. Reinforced concrete was wrongly blamed for the failure until a test was made on similar floor construction. The test proved that the routine phase of the design had been at least approximately correct. But engineering examination revealed the fact that two ones do not always make two. One pint of oil and one pint of water do not make a quart of anything; it will always be two separate pints. A rigid element and a yielding element will be two separate things and not a unified support for carrying loads.

### Economy of Good Design

A large school building was under roof. The steel roof beams were weak, steel columns were weak, reinforced concrete columns were weak, some reinforced-concrete beams showed stresses up to the ultimate strength. Walls were inadequate. These are the things discovered by an engineer who was called in. Without disturbing any finished construction, these faults were all remedied.

In this case routine designing was deficient to the extent that there might have been a disastrous failure. The designing that means a special problem of each structure was also lacking. If this design had been given to an engineer to check before construction was begun, instead of the practice being followed of farm-

ing out the designing to concerns who supplied the materials, all of these errors would have been avoided.

It does not require any special pleading to demonstrate the economy of taking care of such matters before work is begun, even when the errors are caught before the work is finished. The expense and anguish that might have resulted had collapse occurred after its completion might have been very great. No sum of money could compensate for the loss of children's lives that might have been sacrificed to a practice that ignores the expert to save his paltry fee of a few hundred dollars.

### Inadequate Foundations

A large hospital building was designed by an architect. He employed an engineer to design the beam and column work and the column foundations. For the wall foundations he obtained from the engineer the running load on the footings for exterior walls, which were bearing walls, but he did not consult the engineer as to the size of footings necessary to carry those loads on the soil. The building was constructed on footings for the bearing walls that were about half as wide as they should have been. The footings sank under their loads, and large parts of the exterior walls had to be rebuilt. The architect's professional career, a promising one, was ended by this occurrence.

### Mix Common Sense with Mathematics

The Orpheum theatre in New York collapsed, just after about 200 workmen left at quitting time. About a year later expert reports were finally completed and published, including tests of material of a "bystanding" and innocent girder on which the greater part of the heavy roof fell, causing a splice plate to break short. Also later an expert with a secondary stress theory from the other side of the Atlantic ocean told the alleged cause. Five minutes cursory examination of the plans was enough to tell without a scintilla of a doubt exactly what made the structure collapse. An enormous curved girder, with 72-ft. span and a 12-ft. versed sine (projection from the line of the supports), connected at the ends to slender columns, was the complete explanation. This explanation was not given in any of the "expert" reports.

### Building Laws Do not Insure Safe Design

In the first part of this paper I hinted that the examination given by building inspection departments is not a guarantee of the safety of buildings. In the nature of things, it is routine—an examination to see that certain rules of design or laws are carried out. If carefully made, the examiner will see to it that his examination eliminates any skinning



in the design. But a design does not need to be skinned for the structure to fail. One blunder in stability, or equilibrium, or bracing, or details may be enough to bring down the whole structure. Sometimes, if the law "leans backward" the department will ignore it and substitute judgment. Here is the best example I know of the need of a more liberal law and a more rigid application of that law—the elimination of judgment.

In a certain large city the law requires that high buildings be designed for wind loads that increase, in the upper stories, to 35 lbs. per sq. ft. I was checking a 20-story building in that city. Common practice and the design of the building convinced me that it was out of the question to provide, in the columns of this building, particularly the first-story columns, resistance enough in the steel work to bring the stresses down to anything like those allowed by the building code. I endeavored to find out from the building department if they had any rule of practice whereby part of the wind load could be assumed as carried by the general stiffness of the walls and partitions but I was informed that they had no such rule and that the steel work alone must resist the wind. Then I asked the designer for his method of figuring the wind moments in the columns. I was supplied with calculations showing by an elaborate system the distribution of moments among the columns. I saw at once that the columns as designed were subject to stresses greatly exceeding those allowed by the code by these moments.

The building department had already passed the plans. On my part I was willing to ignore a large fraction of the wind load. Also I was willing to brush the elaborate system of the moment distribution aside and take the average for the moment on the whole set of columns—even to apportion to the heavier columns greater shear and moment—to take advantage of every pound of steel already in the columns, in spite of high theory. But I was not satisfied with the design of the columns.

A conference of engineers was called. I pointed out that the design moments in the columns were not taken care of in the design as it existed. The answer was that the average moment should be used. I said, "All right, I will accept the average. Still the moments are high." But they said, "The depth for moments is not the full story height, as shown, but the clear height." "All right," I said, "take the clear height. Still the moments give excessive column stresses." "But," they said "column stresses are not to be taken here; the stresses are at the ends of columns." "These are too high," I said. "Yes" they said, "but do you not allow 50 per cent. excess instead

of the code 30 per cent. for wind?" I agreed to accept the design if 60 tons of steel were added to the columns, not to make it come up to the absurd building law, but to supply the rigidity commensurate with the demands of good construction.

The building law just referred to gives an opportunity for the grossest kind of injustice. The execution of this law is entirely arbitrary. No engineer could have maintained that that building as designed met the law. Hence a building inspector could force prohibitive design on a builder, if for any reason he did not want to pass the plans. I will not follow this lead any further by citing the examples.

In the case of the city code referred to, it would be sufficient and sound engineering if the law provided that one-half of that wind load (which is very high for large surfaces) should be provided for solely in the steel work with unit stresses not to exceed about 14,000 lbs., dividing the bending moment among the columns in proportion to the ability to resist it. Two designers on different sides of the world would then get substantially identical results. As it is now, no two designers could possibly arrive at similar results unless it was by accident.

—National Builder.

### NECESSITY FOR WATER-PROOFING

We must realize that the general application of waterproofing must prove of great advantage to society, since its function is to greatly increase the life of those structures in which it is judiciously used, and what is of more importance, to secure to the dwellers therein immunity from the diseases which are fostered or spread by damp, clammy walls and the unwholesome conditions incident thereto.

It is scarcely necessary, however, to dwell upon the sanitary aspect of the question, since it is a fundamental principal of hygiene that dry habitations are necessary if we would enjoy the normal degree of health.

We take the precaution of draining our cellars into sewers but, with a similar inconsistency do we not often fail to protect them against becoming moisture-soaked and unsanitary? Large sums are expended in the construction of costly reservoirs, tanks and dams and frequently the precaution of conserving the water thus expensively stored is ignored, when this conservation might have been effected by providing a water-tight enclosure, thus guarding at the same time against either a contaminating inflow or a wasteful outflow.

We erect stately mansions of artistic designs, costly material and skilled work-

manship, and before many years have passed, their exterior beauty is frequently defaced by stains or by the unsightly efflorescence, all of which is easily preventable if the simple expedient of waterproofing is adopted while the building is in the early stages of construction.

Thousands of dollars are spent in providing efficient sewage disposal plants, but often the neglect to make the sewers water-tight, results in the pumping and disposal plants being burdened with the handling of ground water, which, in many cases, equals the entire volume of sewage flow, increasing the maintenance cost perhaps 25% or more.

In the erection of expensive concrete super-structures, it too often happens that lack of provision for waterproofing, or a defective system, causes the building to be unfit for occupancy and entails upon the owner serious financial losses. Too often are our buildings put up with all possible speed, in the hope of saving time and money, and, before the walls have been given time to lose the large quantities of water stored up by rains or by water used during the construction period, paint is applied to the outside, plaster to the inside, only to find that after a comparatively short time, due to the pernicious activity of moisture, first one and then the other begin to loosen, peel and go to pieces.

The majority of these cases are not due to the improper preparation of specifications but rather to a sense of false economy on the part of the buyer in the effort to select the lowest bids. Consequently the work, when finished and expected to be perfectly dry, turns out to be leaky and troublesome, necessitating expensive repairs, thus making the first cost but the beginning.—Right Angle.

### CITY ZONING PLAN

*Proper System Will Give Equal Consideration to Manufacturing and Residential Districts*

By W. F. DODD, Attorney at Law, Chicago

The city of Chicago is now being zoned, and so, also are a number of other cities in Illinois. Twelve cities of the State have already been zoned.

The term "zoning" has come to be applied to the working out of a general districting plan for the future development of a city, so that different and conflicting uses of property will not be permitted over the same area. Zoning contemplates therefore, that the portions of a city which should most appropriately be devoted to residence purposes should not be encroached upon by industrial establishments and business enterprises. But zoning equally contemplates that manufacturing areas shall be established and pre-



served, and that such areas shall not be interfered with by other and conflicting uses. This subject was definitely presented in the report of the Illinois Housing and Building Commission in 1921. This commission said:

"The commission desires to emphasize the fact that zoning plans are not intended merely for the protection of residential districts, but that any zoning legislation and ordinances thereunder should be devised with equal reference to the protection and development of manufacturing and commercial interests of the community."

The purpose of zoning is to avoid an intermixture of factories, stores, apartments and private residences, and to provide adequately for each without injuring the others.

#### *Zones For Manufacturing*

Zones for manufacturing purposes are just as important to the welfare and continued prosperity of the city, as are residential zones. Their needs are of course different, and manufacturing zones must be planned with reference to transportation and power facilities. For a successful manufacturing enterprise there is need for permanent factory locations, easily accessible to power and transportation, and with near-at-hand residence facilities for a working population which can live under proper conditions. In a city as large as Chicago there can of course be no one manufacturing area and no one residence area, but there must be a number of manufacturing and residence areas, in such relationship to one another that industry may be adequately conducted.

The Illinois zoning law of 1921 properly recognizes that no zoning plan should interfere with existing rights. This law provides that "due allowance shall be made for existing conditions, the conservation of property values, the direction of building development to the best advantage of the entire city, village or incorporated town and the uses to which property is devoted at the time of the enactment of such ordinance. The powers by this act given shall not be exercised so as to deprive the owner of any existing property of its use or maintenance for the purpose to which it is then lawfully devoted."

The legislation under which the city of Chicago is being zoned, therefore, explicitly lays down a rule for the protection of the business interests of the community.

#### *Illinois Zoning Act*

Under the Illinois zoning act of 1921, cities are permitted to develop plans for their future growth which will best conserve property values, and the welfare of all business and other interests. The zoning contemplated and authorized by this legislation is entirely different from the

type of local action held improper by the Illinois Supreme Court in the cases of the *People vs. Kaul*.

This case dealt with the effort of the village of Forest Park unduly and improperly to restrict factory uses of property. The Forest Park restriction was not based upon any carefully and deliberately worked-out plan with respect to the whole community. The case in which the action of Forest Park was held improper has, therefore no bearing upon plans for comprehensive zoning of a city.

There has been no judicial decision as yet sustaining the Illinois Zoning Act of 1921, or actions of a municipality thereunder. However, zoning legislation and the local exercise under such legislation of power to zone have been upheld in other states and the issue will probably be decided in favor of such powers, when a case presents itself in this state. The Illinois constitutional convention has expressly provided in section 62 of its proposed new constitution that the general assembly shall have power to authorize zoning by local communities.

An appropriately devised plan of municipal zoning should be of advantage to all of the industries within the community. However, an adequate plan for municipal zoning does not develop without the interest and co-operation of the citizens. The manufacturing interests of Chicago have nothing to fear from a properly devised scheme of zoning, and they have much to gain by co-operating with those who are working out the plan, by suggesting and advising with respect to the details of that plan.

#### *A Zoning Commission*

Under the zoning Act of 1921, the details of a zoning ordinance are worked out by a zoning commission. The Chicago zoning commission has already gone a long way toward completing a detailed survey of property uses within the city of Chicago. This commission has sought the advice and assistance of citizens as its work has progressed. The law provides that "after the preparation of such tentative report and ordinance, the commission shall hold a hearing thereon and shall afford persons interested an opportunity to be heard." No zoning will be permanent unless it meets the needs of all important groups in the community. In order to meet these needs each group should take an interest in the tentative zoning plans, and should be fully prepared to present any views which it may have when the tentative report and ordinance come to be submitted to public hearings. No legitimate interest is likely to be hurt if that interest pays some attention to its own problems and needs with respect to zoning. The time to pay attention to these problems is before the

zoning ordinance is finally adopted. It is foolish to wait until final action has been taken, and then seek to make contests in the courts, if adequate relief from threatened injury may be obtained without litigation.

The Chicago plan has contributed greatly not only to the attractiveness of Chicago but also to its wealth and economic resources. Zoning properly conducted will supplement the Chicago plan and also contribute largely to the economic effective of the city. Zoning plans now being worked out in Chicago and in other cities of Illinois should not be compared with so-called piecemeal zoning, as it has been applied in some cities.

*Manufacturers' News.*

#### BUILDING WITH SAFETY

How to check plans and specifications for safety is told in a pamphlet just issued by the National Safety Council, Chicago, containing a check list of several hundred items which must be considered if serious hazards are to be avoided.

The pamphlet, which has been prepared under the supervision of the Council's Safe Practices Committee of 75 safety engineers, points out that proper precautions are taken when drawing plans and specifications for new buildings or equipment, many accident hazards can be forestalled—an important matter to the plant engineer in these days of increasing pressure from Government and insurance inspectors, compensation laws, and plant safety departments. Such engineering revision removes at little or no cost hazards which later could be corrected only at heavy cost if at all, and insures compliance with both Government and insurance demands, the latter resulting in premium reduction.

For detailed information on each of the points covered, the contractor is referred to various standards and handbooks, a list of the principal authorities being given, with cross references from the check list.

This is a valuable pamphlet for contractors to have.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

The impractical dreamers are not the architects, but the clients themselves, as a rule.



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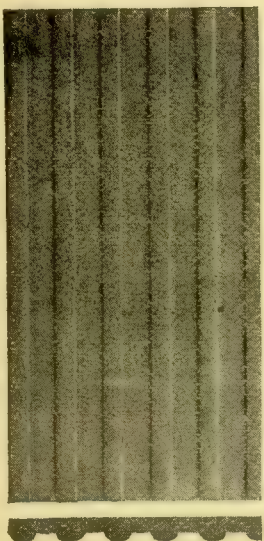
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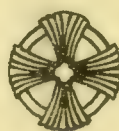
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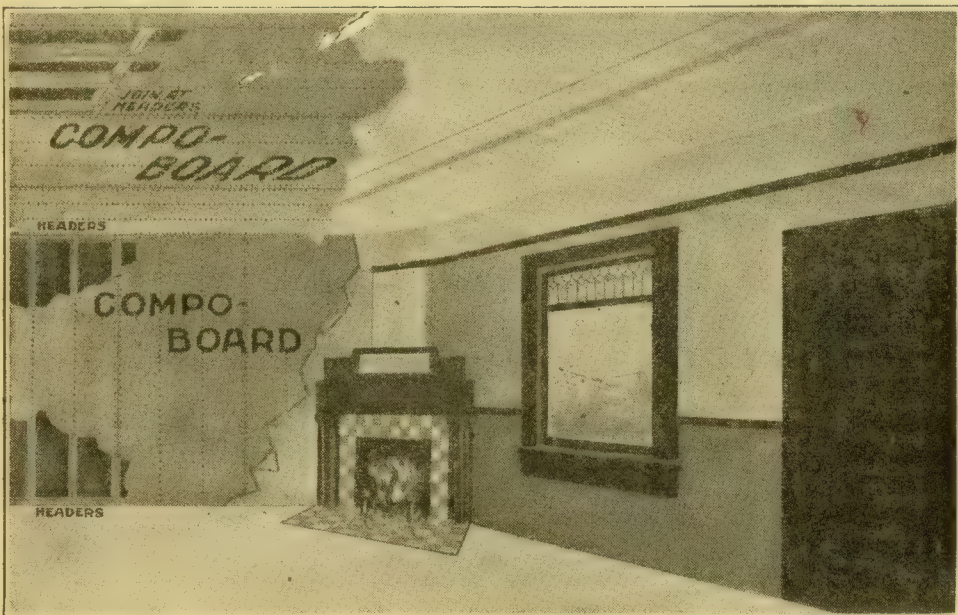
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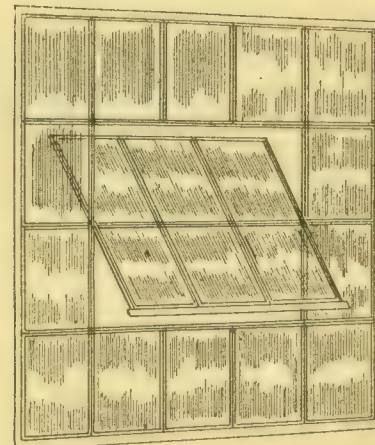
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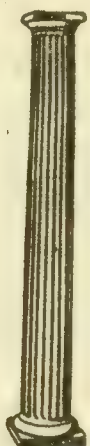


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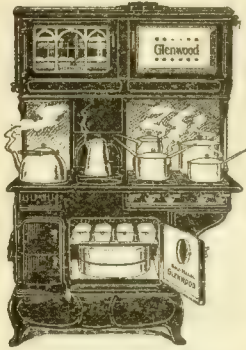
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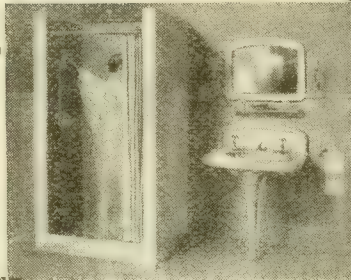
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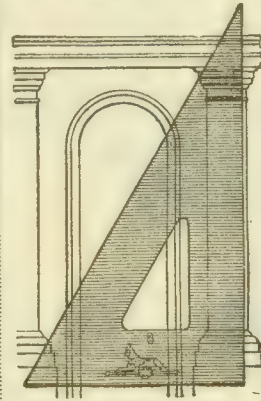
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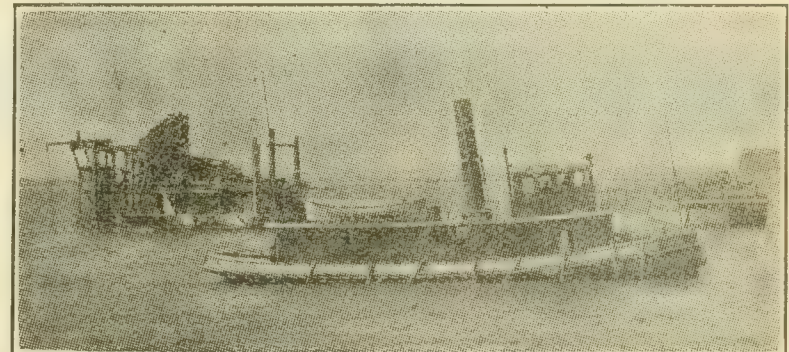
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 10

PHILADELPHIA  
March 7, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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## As The Editor Sees It



In his letter of acceptance of the report of the Building Code Committee of the U. S. Department of Commerce, Secretary Hoover well expressed the objects aimed at in the preparation of "Recommended Minimum Requirements for Small Dwelling Construction." "I am confident that the generous and voluntary contribution of time and energy which you and your colleagues have given to this work will result not only in a very appreciable money saving to millions of American families, but that it will have a positive influence toward better housing that cannot be counted in dollars."

"I join with you in the belief that it will be helpful not only through practical use by municipalities in building codes and in promoting greater uniformity in codes throughout the country, but that with its appendix, it will prove directly useful to owners and builders of dwellings generally."

The methods and practices now in use in the design and construction of dwelling houses are the result of blindly following tradition and past custom. There seems to be no other reason for the thickness of masonry walls used for ordinary one and two-story dwellings than a survival of the belief that such walls should act to a large extent as parts of a fort.

Engineers and architects have doubtless previously made the simple computations necessary to show that the actual

loads coming upon the walls of the ordinary one or two-story house are ridiculously small and are, in fact, only a small percentage of the working loads which engineers long have used in the design of large and important bridges and buildings.

An understanding was soon gained by Mr. Hoover of the woeful lack of definite provisions in the majority of building codes throughout the United States in regard to the minimum requirements for dwelling house construction. In conformity with his general plan of reducing all the lost motion possible, he conceived the idea of having prepared a standard practice based not on inherited practices but on the real need for strength in small buildings.

The Recommended Minimum Requirements for Small Dwelling Construction which resulted from the appointment of a Building Code Committee removes many of the unnecessary limitations which the common practice in house construction seemed to require and for which the home owner has to pay. Instead of 12 inch brick walls for two-story buildings a thickness of 8 inches is permitted.

Recognition is also given to types of construction other than those so well known. The use of concrete both plain and reinforced is provided for in the code and recognition of the strong monolithic character of this structural material is given by allowing exterior walls to

be 5 inches thick. The thickness of walls of hollow building tile and hollow concrete block is also placed more clearly on a basis of the actual strength of these walls than on arbitrary requirements. Walls of hollow building tile or hollow concrete block 8 inches thick are allowed for the uppermost 20 feet of buildings limited to 30 feet high.

The use of reinforced concrete is placed on the same general basis as large buildings and bridges, examples of which have become so numerous and well known. Dwellings of this type may be designed in accordance with the well recognized principles of reinforced concrete design to withstand the loads to which they will be subjected. However, certain requirements are provided which are based more on the practical work of getting the concrete into the forms. Double walls of concrete providing an insulation air space may be constructed with 6 inch aggregate thickness of concrete cast in place. The use of large precast units each of which may be story height and form an entire one-story wall of one side of the house is permitted. Concrete houses provided with a reinforced concrete framework similar to that used in large buildings but with enclosing and partition walls of concrete plastered on metal lath are permitted in this promise of developing firesafe types and low costs are provided for in the code. In fact, new methods of construc-

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tion which give great promise of developing firesafe types and low costs are provided for in the code.

The minimum provisions of this code are safe. They are the result of careful work by a committee which has no other interest than to serve the public to the best of its ability. This committee had at its disposal the most complete compilation of information that has ever been assembled by any committee working on the subject of house construction. Adoption of the code or at least incorporation of the important major parts of its provisions into city building regulations is the next step to make this valuable work of Mr. Hoover's building code committee the means of reducing the cost of dwellings, without any sacrifice of required strength or fire-safeness. In fact, the opportunity which it gives for invention and the exercise of engineering and architectural skill will insure that these objects will in the end be attained for less cost than at present.

#### HUGE PROBLEMS IN ELIMINATION OF WASTE ATTACKED BY COMMERCE DEPARTMENT

*Housing Division Chief Sees Tremendous Savings Through City Planning, Zoning, and Wisely Built Houses*

That hundreds of millions of dollars are lost every year as a result of the lack of proper zoning laws, was a statement made by Dr. John M. Gries, Chief of the Division of Building and Housing of the Department of Commerce, before officials of the Bureau of Standards in a talk outlining some of the work his division is doing.

Dr. Gries stated that the large amount is lost in the form of scrapped buildings and depreciated real estate values, resulting from the intrusion of undesirable commerce into residential districts. The present situation in many cities Dr. Gries compared to a house in which the bookcase is in the bathroom and the kitchen stove in the parlor. He explained that in some of the better residential districts the value of each house may be reduced a thousand dollars or more through the construction in that district of a factory or other structure not properly belonging there.

Dr. Gries recommended adequate zoning laws as a preventive, and explained how the Division is co-operating with communities all over the country that are preparing zoning regulations. A Zoning Primer and a "standard state zoning enabling act" authorizing cities to zone have been widely distributed. He also stressed the necessity for city plan-

ning in municipalities expecting to grow, and stated that the Division was preparing data on this subject which will be made available.

Figures were given showing the relative importance of the different items of construction costs for a certain house. Of these, labor charges accounted for only 26 per cent.; materials cost 29.3 per cent.; land, 19 per cent.; contractor, 12.6 per cent.; financing, 6.7 per cent.; architect and real estate fees, 6.4 per cent. These figures show that it is not generally possible to blame one single factor, such as high labor or material costs, for high prices of houses. He said that while the daily wage of building tradesmen might seem high to a man employed all the year, they were not necessarily high when the seasonal character of the employment was considered. He said a substantial saving in labor costs could be realized if arrangements could be made for employment during a larger part of the year. He also said similar savings in costs of equipment and contractors' overhead could be effected by a more extended building season.

It was pointed out that the Building Code Committee of the Department of Commerce, appointed by Secretary Hoover, has recently published a report entitled "Recommended Minimum Requirements for Small Dwelling Construction." It covers one and two-family dwellings, with an extensive discussion of the reasons for the requirements, and the best types of construction for various purposes. Dr. Gries said that this pamphlet should prove useful to architects and prospective home owners. In this connection, many tests were performed at the Bureau of Standards to determine the strength, fireproofness, and other qualities of types of building construction, the Bureau having made available for that purpose a huge testing machine in which full size sections of walls can be crushed to determine the strength, and a furnace in which their resistance to fire can be tested.

Among other things, this book shows that eight-inch walls are strong enough for two-story houses, and three stories under certain conditions. It recommends that they be permitted instead of the twelve-inch walls now required in many codes.

Floor loads of forty pounds per foot for timber construction, and thirty for monolithic types, are considered sufficient as a basis for calculation of strength, instead of the sixty and seventy pound loads now required in some cities.

The Plumbing Code Committee is making out a report dealing with the rules and regulations necessary for plumbing equipment. Many of these are based on tests which have been made on plumbing equipment at the Bureau of Standards,

(Continued on Page 159)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Church**, Twenty-eighth and Lehigh avenue, Philadelphia. Architects, associate, J. Fletcher Street and H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, Northwestern Memorial Church, care of architects. Stone, 85x80 feet, slate roof, maple floors, steam heating, electric lighting, stained and leaded glass. Plans in progress.

**Factory and Show Room**, 1401-03-05 North Third street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, B. Bernheim & Sons, Inc., Third and Master streets, Philadelphia. Brick, 4 stories and basement, 60x60 feet, slag roof, pine floors, electric elevator, rolled steel sash, hollow metal skylights, steam heating equipment, electric lighting. Plans in progress.

**Garage and Storage Shed**, West Philadelphia, \$25,000. Architects, Richard R. Neely and E. William Martin, 2126 Pine street. Owner, name withheld. Brick and terra cotta, 2 stories, 50x136 feet, slag roof, pine floors, rolled steel sash, structural steel (heating, electric work and plumbing reserved). Plans in progress.

**Residence and Garage**, Southwest Corner Fifty-third and Woodbine avenue, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Louis Frankel, 2219 North Thirty-third street, Philadelphia. Stone, 2½ stories, 32x42 feet, and wing, tile roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

**Apartment House (alts.)**, Broad and Oxford streets. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. General alterations and new fire tower. Plans in progress.

**Store Building (alts.)**, Buist avenue and Dewey street, \$2,500. Architect, private plans. Owner, A. Koobrick, 214 Market street, Philadelphia. New store front, brick work, cement work, lowering floor, plate glass. Owner is ready for general bids.

**Schools (2)**, Fifty-fourth and Berks streets and Seventeenth and Ruscomb streets. Architect, private plans. Owner, Board of Education, Nineteenth above Chestnut street, Philadelphia. Reinforced concrete, brick, granite and steel, 3 stories and basement, 171x147 feet, composition and tile roof, maple floors, tile work, rolled steel sash and doors,

bond, waterproofing, iron work. Owners taking bids due March 8th.

**Residence**, Pembroke, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, A. W. Drobile, 437 West Penn street, Germantown, Philadelphia. Stone, 2½ stories, 40x129 feet, wing 22x13 feet, shingle roof, oak and pine floors, hot water heating, electric lighting. Architect taking bids due March 8th.

**Oak Lane Central Office Building (alts. and add.)**, City Line and Chestnut avenue, Oak Lane, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Seventeenth and Parkway, Philadelphia. Brick, cut stone, concrete and steel, second story add., 70x30 feet, slag roof, concrete floors, waterproofing, bond, tin-clad doors, copper skylights, metal lath, tile and marble work, electric lighting, steam heating. Bids due March 12th.

**Office Building**, Broad street, Callowhill street, Fifteenth street and Pennsylvania avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Philadelphia Inquirer, 1109 Market street, Philadelphia. Brick, steel, granite and limestone, 8 stories and basement, 395x93 feet, slag roof, cement and maple floors, roof ventilators, dampproofing, terra cotta, caulking, cork insulation, iron work, iron stairs, bond, steel doors, rolled steel sash, tile, marble and terrazzo work, metal lath (plumbing, electric work, heating, elevators and ventilating reserved). Architects taking bids due March 19th.

**Residence**, Chestnut Hill, Pa. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owner, Dr. Norman Henry Taylor, 338 East Springfield avenue. Hollow tile, cut stone and stucco, 2½ stories, 71x40 feet, shingle roof, oak, pine and cement floors, waterproofing, iron work, bond, marble work, metal lath (heating, electric work and plumbing reserved). Architects taking bids due March 10th.

**Residence**, McCallum street, East of Allen Lane, Philadelphia. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Mrs. Mary S. Fuchs, 528 East Washington Lane, Philadelphia. Stone, 2½ stories, 80x27 feet, slate roof, oak, pine and composition floors, electric light, metal

lath, tile work, bond. Architect taking bids due March 9th.

**Apartment Building**, Nineteenth and Walnut streets, Philadelphia. Architect, Le Roy B. Rothschild, 215 South Broad street, Philadelphia. Owner, R. A. Heymann, 213 South Broad street, Philadelphia. Brick, concrete, cut stone, granite and steel, 16 stories and basement, 135x91 feet, slag roof, cement, oak and pine floors, elevators, waterproofing and dampproofing, terra cotta, iron stairs, bond, hollow metal sash, skylights and doors, tile and marble work, steam heating, electric lighting, metal lath. Architect taking bids due March 13th.

**Manufacturing Building**, Hermit lane and Germantown avenue, Philadelphia. Architect, Judson F. Vodges, Jr., Lansdowne, Pa. Owners, Woods & Logan, Lena and Earham streets, Philadelphia. Brick, slow burning, 2 stories, 160x80 feet, slag roof, wood floors, elevators, steam heating (electric lighting reserved). Owners taking bids due March 9th.

**Warehouse**, Germantown avenue and Roy street, Germantown, Philadelphia. Architects, Thompson & Yocum, 703 South Sixtieth street, Philadelphia. Owners, North Philadelphia Supply Co., Inc., 3233 Germantown avenue. Brick and steel, 2 and 3 stories, 40x31 feet, slag roof, cement floors, waterproofing, iron work, electric light, bond (heating reserved). Architects taking bids due March 10th.

**Operation Suite**, Fifth and Reed streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owners, Mt. Sinai Hospital, on premises. Brick, reinforced concrete and steel, 1 story, 37x60 feet, slag roof, cement floors, roof ventilators, terra cotta, iron work, bond, kalamein doors, rolled steel sash, tile and marble work, metal lath. Architects taking bids due March 8th.

**School (alts.)**, Atlantic and Frankford avenue, Philadelphia. Architect, George A. Audsley, Bloomfield, N. J. Owners, St. Joan of Arc Roman Catholic Church, care of Rev. E. Hawks, premises. Completion of first floor, concrete work, carpentry, mill work, painting, glazing, pine floors, hardware, plastering, metal lath, fireproof doors. Owner taking bids.

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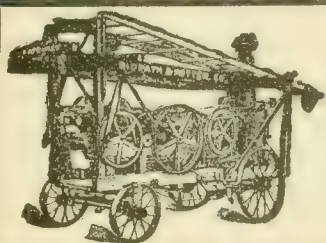
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**Playground**, Cheltenham avenue, Ardleigh and Woodlawn streets. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Surfacing, sodding, fencing.

**Haddington Recreation Centre**, Fifty-seventh and Haverford avenue. Grading, sodding, inlet and repair to gates. Owners taking bids due March 12th at noon.

**Toilet Room**, Athletic Recreation Centre, Twenty-sixth and Jefferson streets. Architect, private plans. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. Construction of toilet room, including plumbing and electric work. Owners taking bids due March 12th at noon.

**Store (alts.)**, 5011 Germantown avenue, Philadelphia. Architect, A. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, J. T. Veasey, on premises. Changing into two stores, electric work, metal lath, new bulks, new front, cement work, plate glass. Owner taking bids due as soon as possible.

**Store and Storage Building**, Twenty-third and South streets, Philadelphia. Architects, R. R. Neely and E. William Martin, 2126 Pine street. Owner, William Marshall, care of architect. Brick, 2 stories, 25x60 feet, steam heat, plate glass, plumbing. Owner taking bids.

**Store and Apartments (add.)**, Fifty-eighth and Chester avenue. Architects, R. R. Neely and E. William Martin, 2126 Pine street. Owners, Mr. Cline, care of architect. Brick, 18½x32 feet, slag roof, stair work, hot water heating, electric light. Architect taking bids.

**Service Building**, Forty-second and Woodland avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Reynold H. Greenberg, 901 Morris Building, Philadelphia. Brick, concrete, cut stone and steel, 1 story, 119x628 feet, asbestos asphalt built-up roof, cement floors, hollow tile, waterproofing, iron work, bond, tin-lined doors, hollow metal sash, metal lath. Architect taking bids due March 8th. (Specification report.)

**Fannie M. Jackson Coppin Memorial**, Tenth and Lombard streets. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Brick, concrete, limestone and steel, 2 stories and basement, 45x120 feet, slag roof, maple floors, metal doors (heating, plumbing and electric work separate bids). Bids due March 9th. Deposit, \$10. Refund, \$7. Plans may be obtained from office of Karcher & Smith.

**Municipal Building**, Germantown avenue and Haines street. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia.

Owners, Bureau of City Property, Bureau of Public Works. Lowest bidders: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, \$424,713; P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, \$475,000. Heating, Austin, Gorham & McIlvain & Co., Inc., 1816 Ludlow street; A, \$16,800; B, \$15,482; Unit, \$14. Electric, Greenwood Eng. Co., 3314 Lancaster avenue, \$7,204.67. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$14,466. Ventilating, W. Early & Son, 126 Ridge avenue, Philadelphia, \$725.

**Rooms**, Nos. 450 and 454, City Hall, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property. Lowest bidders: D. R. MacGregor Sons, 1628 Vine street, Philadelphia, \$6,742; Chapman Dec. Co., 1608 Walnut street, Philadelphia, \$6,890.

**Juniata Park**, H, Cayuga, L streets and Frankford Creek, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property. Lowest bidders: E. C. Durell, 1713 North Twenty-fourth street, \$6,863; Bowden Const. Co., 1935 Chestnut street, \$8,800.

**Residences (6)**, 4736-46 Rising Sun avenue, \$30,000. **Residences and Stores (9)**, G and Tioga streets, \$49,000. Owner, M. Cylinder, 5734 Chestnut street, Philadelphia. Brick, 2 stories, various dimensions, hot water heat, electric light, hardwood floors, slag roof. Owner will build.

**Residences (7)**, Twenty-eighth and Reed streets, \$32,400. **Residences (26)**, Newkirk and Reed streets, \$29,600. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, electric light, hot water heat. Owner will build.

**Apartment House**, East side Forty-seventh street, North of Spruce, \$65,000. Owner, Samuel L. Cohen, 411 South Sixty-second street, Philadelphia. Brick, 4 stories, 42x32 feet, 33x23 feet and 42x32 feet, hot water heat, electric light, hardwood floors, tile work. Owner will build.

**Residence**, East side Tabor road, North of Shelmire street, \$3,500. Architect, private plans. Owner, John Reynolds, 6328 Regent street, Philadelphia. Brick, 2 stories, 16x28 feet, 12x12 feet, hot water heat, electric light, slag roof. Owner will build.

**Residences (20)**, Third and Delphine streets and Third and American streets, Philadelphia, \$82,000. Architect, private plans. Owner, Emil P. Stahl, 5209 North Third street, Philadelphia. Brick, 2 stories, (2) 15x32 feet and (18) 14x26 feet, 10x7 feet, slag roof, electric lighting. Owner will build.

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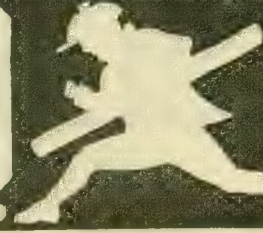
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**Factory**, North side Oregon avenue, West of Delaware River, \$20,000. Architect, private plans. Owners, Pennsylvania Salt Mfg. Co., Widener Building, Philadelphia. Corrugated iron, 1 story, 81x73 feet, cement floors. Owner will build.

**Residences (15)**, Westford road and Geneva street, \$77,000. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x9 feet, and (2) 15x38 feet, hot water heat, electric light, hardwood floors. Owner will build.

**Residences and Garages (23)**, Smedley street and Sixty-seventh avenue, and (17) Sixty-seventh avenue and Sixteenth street, \$320,000. Owner, John T. Clasby, 4449 North Ninth street, Philadelphia. Brick, 2 stories, (18) 16x46 feet, and (22) 16x35 feet, 11x11 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences and Garages (10)**, Fifty-fifth and Springfield avenue, \$6,000 each. **Residences and Garages (34)**, North and South sides Belmar Terrace, \$6,000. **Residences (36)**, Fifty-fourth and Ridgewood avenue, \$6,000 each. Owner, Charles E. Biddle, 730 South Fifty-second street, Philadelphia. Brick, 2 stories, (10) 16x40 feet, (36) 15x29 feet, 12x9 feet, and (34) 15x29 feet, 12x9 feet, slag roof, hardwood floors. Owner will build.

**Residences (31)**, Third, Fourth and Roosevelt Boulevard, Philadelphia, \$146,500. Architect, private plans. Owner, John Tucker, 312 Christian street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (8)**, North side Cliveden street, East of Magnolia, \$43,200. Architect, private plans. Owner, Frank Kiely, 5232 North Tenth street, Philadelphia. Brick, 2 stories, (1) 15x40 feet, and (7) 15x30 feet, 12x10 feet, slag roof, hot water heat, electric light, hardwood floors. Owner will build.

**Residences (6)**, Crittenden and Mt. Airy avenue, \$5,500 each. Architect, private plans. Owner, John S. Miller, Glenside, Pa. Brick, 2 stories, 16x53 feet, hot water heat, electric light, slag roof, hardwood floors. Owner will build.

**Residences (10)**, C street, North of Eleanor street, \$54,000. Owner, Charles P. Miller, Glenside, Pa. Brick, 2 stories, various dimensions, hot water heating, electric lighting, oak floors. Owner will build.

**Residences (16) and Stores and Residences (4)**, Rockland, B, Rosehill and Ormes streets, \$84,000. Architect, private plans. Owners, Zerberg & Liebman, B and Rockland streets, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**Shop**, 1333 to 1337 Olive street, Philadelphia. Architect, private plans. Owners, F. B. Davis & Sons, Inc., 240 North Sixteenth

street, Philadelphia. Brick and steel, 1 story, 52x67 feet, slag roof, cement floors, hollow metal skylights. Owners will build.

**Residences (8) (alts.)**, 2502-16 North Philip street, \$3,000. Architect, private plans. Owner, J. D. Lewis, 2151 North Thirty-second street, Philadelphia. General alterations. Owner will build.

**Stable, Office Building and Shop**, Twenty-sixth and Glenwood avenue. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Brick and steel, 1 and 2 stories, 217x58 feet and 104x58 feet, and 50x25 feet and 30x38 feet, slag roof, plank, cement and pine floors, rolled steel sash and skylights, iron work. Lowest bidders: Bowden Const. Co., 1935 Chestnut street, Philadelphia, \$59,900; F. A. Havens Co., 845 North Nineteenth street, Philadelphia, \$61,300.

**Paving**, Philadelphia. Owners, Bureau of Highways, City Hall, Philadelphia. Low bidders on paving work opened February 27th, 1923:

**Paving with Asphalt**—Schiller street, from Thompson to Salmon, \$4,236.37; Union Paving Co., Thirty-seventh and Spruce streets, Philadelphia. Forty-eighth street, from Walnut street to Larchwood avenue; Union Paving Co., Thirty-seventh and Spruce streets, Philadelphia, \$26,441.69.

**Paving with Granite Block**—Fifteenth street, from South to Spruce; John Mehan & Sons, 915 Dauphin street, Philadelphia, \$37,043.15.

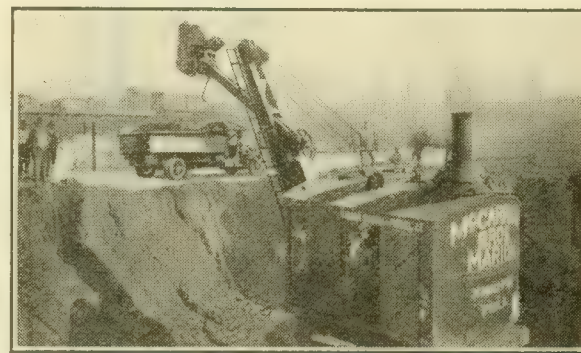
**Main Sewer**, Philadelphia. Owners, Bureau of City Property, City Hall, Philadelphia. Low bidders on sewers opened February 28th at noon: Germantown avenue and Haines streets; Ellis, 5724 North Marshall street, Philadelphia, \$6,832.50.

**Store (alts. and add.)**, 1919 West Venango street, Philadelphia. Architect, E. L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Charles W. Spencer, on premises. Architect taking bids due March 9th.

**Apartment Buildings (4)**, Sixty-sixth avenue and Eighth street, Oak Lane. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Solid Realty Co., care of architect. Architect taking bids due March 13th.

**Store and Storage (add. and alts.)**, 6018-20 Market street, \$10,000. Architect, private plans. Owner, Herman Cole, 9 Willington road, Darby, Pa. Brick, 3 stories add., 36x46 feet, general alterations, slag roof, electric work. Owner will build.

**Building (alts.)**, 109-11 South Fourth street. Architects, Savery & Scheetz, Stephen Girard



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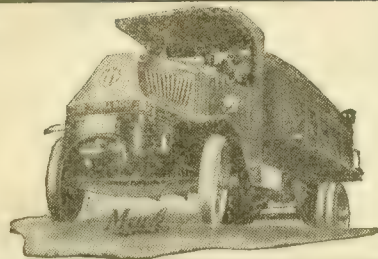
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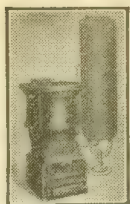
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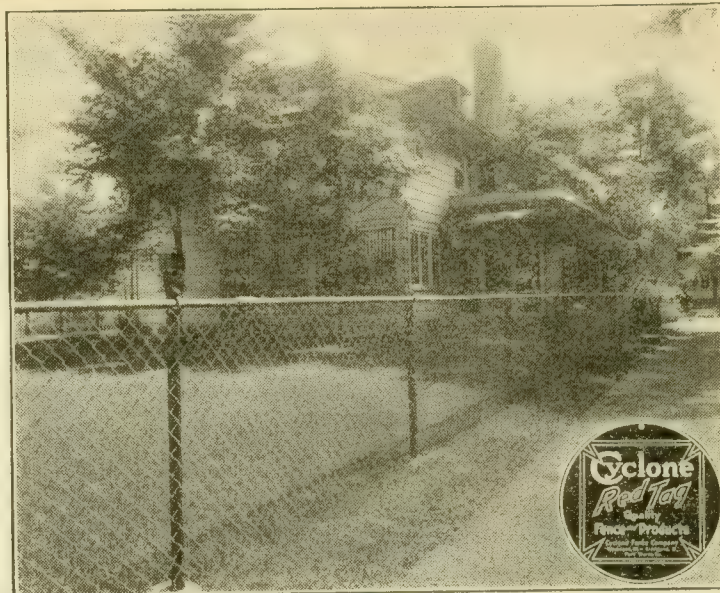
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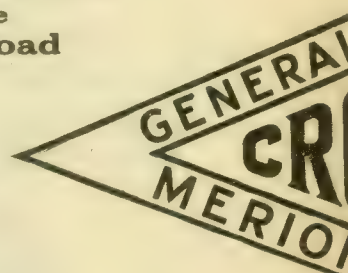
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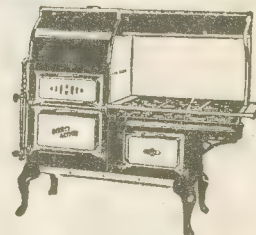
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Building, Philadelphia. Owners, Provident Mutual Life Ins. Co., premises. Brick, concrete and steel work, cement floors, metal lath, plastering, tile work, hardware, painting, glazing. Architect taking bids.

Garage, Twenty-second and Atlantic streets, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, James A. Clark, 6162 Columbia avenue, Philadelphia. Brick, 1 story, 80x100 feet, slag roof, cement floors, electric light. Owner will be ready for bids in a few days.

Post Office Building, Graver's lane, North of Germantown avenue. Architects, John Graham, Jr., and Folsom & Stanton, 10 South Eighteenth street. Owners, Chestnut Hill Title & Trust Co., on premises. Stone, concrete, cut stone and brick, 1 story, 80x44 feet, Barretts roof, maple and cement floors, roof ventilators, waterproofing, iron work, bond, rolled steel skylights, steam heat, electric lighting, metal lath, tile work. Architects taking bids due March 7th.

Residences (2) (alts. and add.), 1925-27 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Charles T. Cresswell, 2122 Locust street, Philadelphia. Architect taking bids due March 9th.

Hospital Alt. to (3) Residences, 116-18-20 South Colorado street, Philadelphia. Architect, private plans. Owners, Children's Hospital, Eighteenth and Bainbridge streets. Carpentry, mill work, painting, glazing, slag roof. Owners taking bids due March 8th.

## Contracts Awarded

Scope of Contract and Successful Bidders; “Inside” Information for the Material Man and Interior and Exterior Fitter.

Office Building, 234-36-38 Lombard street, Philadelphia, \$65,000. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets. Brick, reinforced concrete and steel, 3 stories and basement, 82x52 feet, slag roof, cement floors, metal lath, tile and terrazzo work, bond, iron work, terra cotta. Contract awarded to Barclay White Co., 1713 Sansom street.

Store, Rooming House and Garage, 2217-19 South street, Philadelphia, \$20,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Mayer Milgram, 2116 South street, Philadelphia. Brick, 3 stories, store, 47x67 feet, depth of building 154 feet, slag roof, cement, pine, maple and composition floors, metal ceilings, mezzanine floor in store, vapor heat, electric light, quarry tile, hollow metal skylights, copper bulks. Contract awarded to Charles Litman, 2438 South Fourth street, Philadelphia.

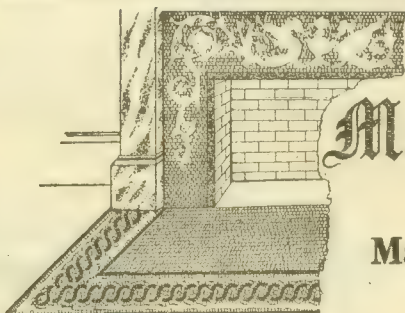
Abattoir, Northwest Corner Front and Vengano streets, Philadelphia. Architects, Peter Kuhn Eng. Co., 3056 North Eighth street, Philadelphia. Owners, Duffy Brothers, 3255

North Front street, Philadelphia. Brick and castone, 1 and 2 stories, 140x88 feet, and 64x66 feet, slag roof, reinforced concrete and maple floors, metal lath, iron stairs, iron work, bond, hollow metal skylights. Contract awarded to H. E. Batton, 1713 Sansom street, Philadelphia.

Elevator Shaft, etc., Second and Indiana avenue, Philadelphia, \$7,000. Architect, private plans. Owners, William Scholes & Sons, on premises. Structural steel and cement, slag roof, hollow metal skylights, Peele doors, freight elevator. Contract awarded to Albert E. Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia.

Residence (alts.) and Garage, Chestnut Hill, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Dr. Francis Clark Grant, 3600 Walnut street, Philadelphia. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

Residence, West side Oak road, North of Midvale avenue, \$18,000. Architect, private plans. Owner, Dr. Leroy I. Walker, 2258 North Thirteenth street, Philadelphia. Stone, 3 stories, 31x25 feet, 26x14 feet, slate roof, hot water heat, electric light, hardwood floors.



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Contract awarded to William J. Ryder, 1718 Sansom street, Philadelphia.

**Garage**, 122 East Hottter street, Philadelphia, \$9,000. Architect, private plans. Owner, Henry M. B. Kendrick, on premises. Brick, 1 story, 15x26 feet, 87x112 feet, slag roof, cement floors. Contract awarded to Henry Kendrick, 188 East Sharpnack street.

**Garage (repairs)**, Southwest Corner Sixteenth and Ingersoll streets, \$7,800. Architect, private plans. Owners, Fry & Barr, Eighteenth and Ridge avenue, Philadelphia. General fire repairs, slag roof. Contract awarded to P. Haibach Const. Co., 1261 North Twenty-sixth street.

**Business Building (add.)**, 2100 West Dauphin street, \$3,000. Architect, private plans. Owner, Mrs. M. Deegan, 3536 Joyce street, Philadelphia. Brick, 1 story, 16x42 feet, slag roof, pine floors, electric work. Contract awarded to W. H. Davis, 149 North Fifteenth street, Philadelphia.

**Residence and Store (add.)**, 444 South Fifty-second street, Philadelphia, \$3,000. Architect, private plans. Owner, H. B. John, on premises. Brick, 3 stories, 16x10 feet, slag roof, pine floors. Contract awarded to E. T. Lever, 221 North Fifty-ninth street, Philadelphia.

**Residence (alts.)**, 26 West Johnson street, Philadelphia, \$2,000. Architect, private plans. Owner, Joseph J. Fonder, Armat and Lena streets, Philadelphia. General alterations. Contract awarded to Charles S. Johnston, 5600 Germantown avenue.

**Residence and Store**, Northwest Corner Germantown avenue and Oxford street, \$15,000. Architect, Peter Getz, 1634 North Sixth street, Philadelphia. Owners, Hahn Brothers, 1635 Germantown avenue, Philadelphia. Brick, 3 stories, 37x20 feet, 20x47 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to William Freiling, 2553 North Fifth street, Philadelphia.

**Residence**, 1215 East Washington Lane, Philadelphia, \$4,000. Architect, private plans. Owner, William H. Shay, 5811 Osceola street, Philadelphia. Brick, 2 stories, 25x30 feet, slag roof, hardwood floors, hot water heating, electric lighting. Contract awarded to John H. Teith, 5817 Osceola street, Philadelphia.

**Workshop and Storage**, North side Oxford street, West of Germantown avenue, \$3,000. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, Hahn Brothers, 1635 Germantown avenue, Philadelphia. Brick, 2 stories, 16x29 feet, slag roof, pine floors, electric light. Contract awarded to William Freiling, 2553 North Fifth street, Philadelphia.

**Store and Two-Family Residence (alts.)**, 2427 Germantown avenue, \$2,500. Architect, private plans. Owner, W. C. Fox, on premises. General alterations. Contract awarded to E. H. Sturtz, 1233 Wyoming avenue, Philadelphia.

**Shop**, 1639 North Eleventh street, Philadelphia.

phia, \$2,180. Owner, Joseph Nelson, on premises. Brick, 1 story, 17x48 feet, slag roof, pine floors, electric light. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

**Store and Storage (alts.)**, 2217-19 Orthodox street, \$5,000. Architect, private plans. Owner, M. B. Weise, 2217 Orthodox street, Philadelphia. General alterations. Contract awarded to E. H. Sturk, 1233 Wyoming avenue, Philadelphia.

**Apartment (alts. and add.)**, 402 South Twentieth street, Philadelphia, \$5,000. Architect, private plans. Owner, Lemuel B. Schofield, 1009 West End Trust Building. Brick, third story add., 10x11 feet, slag roof, hardwood floors, general alterations. Contract awarded to Acme Const. Co., 2025 North Sixty-second street.

**Garage**, Southwest Corner Amber and Boston avenues, Philadelphia, \$3,140. Architect, private plans. Owner, Charles Kiesling, on premises. Brick, 1 story, 16x69 feet, slag roof, cement floors. Contract awarded to Harold E. Miller, 2528 Coral street, Philadelphia.

**Residence (alts.)**, 33 High street, Philadelphia, \$2,500. Architect, private plans. Owner, Mrs. N. H. Keyser, on premises. General alterations. Contract awarded to William J. Gruhler Co., 219 High street.

**Building (repairs)**, 784-86 South Swanson street, \$5,000. Architect, private plans. Owner, Charles S. Purvis, 735 Westview street, Philadelphia. General fire repairs. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

**Storage (add.)**, 4428 Paul street, Philadelphia, \$3,800. Architect, private plans. Owners, La France Art Co., on premises. Brick, 1 story, 32x46 feet, slag roof, pine floors. Contract awarded to John F. Davies, 1021 Herbert street.

**Apartments (3) (alts.)**, 204 South Forty-second street, Philadelphia, \$2,400. Architect, private plans. Owner, Lily Lawrence, 3029 Diamond street, Philadelphia. General alterations. Contract awarded to Warren E. Biscoe, 4222 Brown street.

**Store (alts.)**, 12 North Eleventh street, Philadelphia, \$2,000. Architect, private plans. Owners, Heyman Brothers, 213 South Broad street, Philadelphia. General alterations, mill work, bulk windows. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

**Restaurant (alts.)**, Southwest Corner Market and Bank streets, \$12,000. Architect, private plans. Owners, Horn & Hardart Baking Co., 210 South Tenth street, Philadelphia. Carpentry, mill work, general alterations. Contract awarded to Harry R. Rust, 19 South Eighth street, Philadelphia.

**Store and Bakery**, 503-05 South Fourth

street, Philadelphia, \$12,000. Architect, private plans. Owners, Felton & Silver, 4108 West Girard avenue, Philadelphia. Brick, 2 stories, 31x53 feet, slag roof, steam heat, electric lighting. Contract awarded to Saidel Const. Co., 5749 Walnut street.

**Residence**, 825 Carpenter street, Philadelphia, \$9,000. Architect, private plans. Owner, Michael Di Negro, 931 South Tenth street, Philadelphia. Brick, 2 stories, 25x14 feet, 16x43 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to N. Scurci, 2640 South Twelfth street, Philadelphia.

**Store and Storage**, 2228 North Front street, Philadelphia, \$7,500. Architect, private plans. Owners, Shaines Brothers, 2137 North Front street, Philadelphia. Brick, 3 stories, 16x36 feet, 16x25 feet, slag roof, electric work. Contract awarded to Louis Shaines, 2137 North Front street, Philadelphia.

**Warehouse (add.)**, 823 Bainbridge street, Philadelphia, \$5,500. Architect, private plans. Owners, Roberts Brothers, on premises. Brick, 2 stories add., 30x50 feet, slag roof, electric lighting. Contract awarded to Jacob Gitzik, 531 South street, Philadelphia.

**Residence**, 5012 Pine street, Philadelphia, \$15,000. Architect, private plans. Owner, Russell H. Thompson, 911 Weightman Building, Philadelphia. Brick, 3 stories, 20x38 feet, 17x23 feet, slag roof, hot water heat, electric light, hardwood floors, tile work. Contract awarded to H. P. Werner, 3245 Germantown avenue.

**Factory and Office (add.)**, Southeast Corner Wayne and Windrim avenues, \$10,000. Architect, private plans. Owners, Brown Instrument Co., on premises. Brick, two story add., 29x42 feet, slag roof, maple floors, electric. Contract awarded to R. C. Ballinger & Co., 925 Walnut street.

**Residence**, North side Gates street, East of Mathias street, \$8,500. Architect, private plans. Owner, Mrs. M. S. Mears, 6701 Ridge avenue, Philadelphia. Frame, 2 stories, 24x34 feet, oak and pine floors, electric light. Contract awarded to Carl F. Hirsh, 410 Spring Mill road, Conshohocken, Pa.

**Residence and Store (alts. and add.)**, 1515 North Seventh street, \$7,300. Architect, private plans. Owner, Israel Weiss, on premises. Brick, 2 story add., 16x24 feet, 3x24 feet, general alterations. Contract awarded to Max Katz, 5948 Callowhill street, Philadelphia.

**Residences (2)**, North side Linden street, West of Torresdale, \$6,200. Architect, private plans. Owner, Mrs. M. Gordon, Linden avenue, Torresdale, Philadelphia. Frame, 2 stories, 16x30 feet, electric lighting, oak and pine floors. Contract awarded to Afton E. Rich, 1510 West Cayuga street.

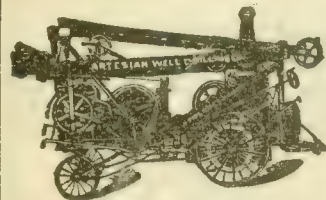
**Residences (10) and Garage (1)**, Frank-

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ford avenue and Howarth street, \$158,000. Architect, private plans. Owners, W. H. Yelland & Brother, 1350 Harrison street, Philadelphia. Brick, 3 stories, (9) 16x26 feet, 13x29 feet, and (1) 16x58 feet, garage, 18x162 feet, slag roof, hardwood, pine and cement floors, electric lighting, hot water heating, cement floors, tile work. Contract awarded to C. C. Carte, 1654 Dyre street, Philadelphia.

**Studio (add.)**, 210 South Quince street, Philadelphia, \$2,500. Architect, M. Capobianco, 771 South Seventh street, Philadelphia. Owner, D. Ellis Lit, on premises. Brick, second story add., 15x10 feet, slag roof. Contract awarded to A. J. Maken, 201 Levering street.

**Apartment (alts.)**, 126 North Eighteenth street, Philadelphia, \$6,900. Architect, private plans. Owner, Barbara I. Schenck, 4741 North Camac street, Philadelphia. General alterations, carpentry, mill work, metal lath. Contract awarded to T. S. Fetter, 1829 Filbert street.

**Residence**, East side Oxford avenue, South of Cottman street, \$5,800. Architect, private plans. Owners, John and Anna Thomulka, 3824 North Marshall street, Philadelphia. Frame and brick, 2 stories, 16x40 feet, hardwood and pine floors, electric light. Contract awarded to Maurice L. Quinlan, 7411 Lawndale street.

**Lunch Room**, North side Fountain street, East of Canal street, \$5,000. Architect, private plans. Owners, A. T. Baker & Co., Manayunk, Philadelphia. Brick, second story add., 50x50 feet, slag roof, pine floors, electric lighting, heating extension. Contract awarded to Barclay White & Co., 1713 Sansom street.

**Store (alts.)**, 505 Market street, Philadelphia, \$2,100. Architect, private plans. Owner, M. Gerber, on premises. General alterations. Contract awarded to H. M. Shandles, 1211 Chestnut street.

**Store and Residence (add. and alts.)**, 1136 Columbia avenue, \$3,000. Architect, private plans. -Owner, J. Breitman, on premises. Brick, 1 story, 38x26 feet, 3 stories, 16x46 feet, slag roof, pine floors. Contract awarded to Charlick & Ghatman, 3109 Durfor street.

**Garage**, 521 Ruscomb street, Philadelphia, \$2,800. Architect, private plans. Owner, Mr. Charles Wacker, 512 Ruscomb street, Philadelphia. Brick, 1 story, 56x18 feet, slag roof, cement floors. Contract awarded to A. N. Tatro & Co., 1345 Arch street.

**Residence and Store (add.)**, 723 Oxford street, Philadelphia, \$2,800. Owner, J. Teher, Forty-eighth and Larchwood avenue, Philadelphia. Brick, 1 story add., 17x18 feet, slag roof, pine floors. Contract awarded to Girard Realty Co., 3220 Columbia avenue.

**Garage**, B street and Allegheny avenue, Philadelphia. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, John M. Kennedy, 406 South Van Pelt street, Philadelphia. Brick and steel, 2 stories, 40x160 feet, slag roof, cement and plank floors, electric lighting, rolled steel sash. Contract awarded to Long & White, 44 Armat street, Philadelphia.

**Manufacturing Building**, 224 South Eighth street, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, L. Shaiko, on premises. Brick, 2 stories, 24x87 feet, slag roof, cement and pine floors, rolled steel sash, hollow metal skylights, steel girders (heating, electric work and plumbing reserved). Contract awarded to Warren Brothers, 1113 Cherry street, Philadelphia.

## PENNSYLVANIA

# Construction News

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**Louis H. Eisenlohr Memorial Building for Girls**, Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Stone and brick, 2 stories and basement, 98x56 feet, E-shaped. Plans in progress.

**Twin Residences (2 pairs)**, Northeast Corner Old Lancaster avenue and Latches Lane, Montgomery County, Pa. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Philip Malickson and Bernard R. Cohn, 1423 Vine street, Philadelphia. Hollow tile and stucco, 2½ stories, 34x75 feet, Spanish tile roof, hardwood floors, hot water heating, electric lighting, tile work, garages attached. Plans about completed. Architect will be ready for bids in ten days.

**Store Building (showroom)**, North Main street, Norristown, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Daniel L. Tyson, 146 South Main street, North Wales, Pa. Brick and steel, 1 and 2 stories and basement, 90x100 feet, Carey built-up roof, steam or vapor heating, electric light, plumbing, rolled steel doors, cement and pine floors, metal bulks and plate glass. Plans in progress. Will take bids in about one month.

**Home (alts.)**, Frederick, Montgomery County, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, Mennonite Home, B. Kratz, chairman, Schwenksville, Pa. New fire tower, concrete, steel and wire glass, 4 stories, 13x18 feet. Plans in progress. Architect will be ready for bids in a few weeks.

**Residence**, Macungie, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, G. B. Klappinger, Macungie, Pa. Brick, 2½ stories, 30x50 feet, asbestos shingle roof, hardwood floors, electric light. Plans in progress. Owner will build.

**Residence**, Macungie, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owner, C. L. Huber, Macungie, Pa. Brick, 2½ stories, 30x50 feet, asbestos shingle

roof, hardwood floors, electric light, tile work. Plans in progress. Owners will build.

**Store Building (alts. and add.)**, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Shapiro Brothers, Shamokin, Pa. Brick and stone, 3 stories, 53x135 feet, slag roof, pine floors, steam heating, electric lighting, plumbing, structural steel, plate glass, tile work. Plans in progress.

**Store and Apartment**, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Rudolph Hope, Souderton, Pa. Brick and steel, 2 stories, 36x70 feet, slag roof, pine and maple floors, steam heating, electric lighting, metal bulks, plate glass. Preliminary plans in progress.

**Store and Apartments**, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, M. Aughy, Main street, Souderton, Pa. Brick and steel, 2 stories, 35x96 feet, slag roof, hardwood floors, steam heating, electric lighting, tile work, plate glass, metal bulks. Plans in progress. Architect will be ready for bids in one month.

**Bank (int. alts.)**, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, Souderton National Bank, A. G. Reiff, president, Souderton, Pa. New balcony, iron and steel and hardwood floor. Plans in progress.

**Apartment**, Tenth and Elm streets, Reading, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owner, Dr. J. Goldsmith, 947 Elm street, Reading, Pa. Brick, 3 stories, 22x100 feet. Too early for details.

**Residence (alts.) to Apartment**, 231 West Oley street, Reading. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owner, A. M. Zeller, 231 West Oley street, Reading, Pa. Brick, 2 stories, general interior alterations. Preliminary plans in progress.

# TILES

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**Church, Sunday School and Parsonage,** Cumberland, Md. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Evangelical Lutheran Church, Rev. H. Hall Sharke, Cumberland, Md. Granite, 1½ and 2 stories. Preliminary plans in progress.

**Church, Sunday School and Parsonage,** Tamaqua, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Zion Lutheran Church, Dr. G. Gibert, Tamaqua, Pa. Granite, 1 and 2 stories, 150x150 feet, slag roof, hardwood floors, vapor heat, electric light, hollow tile, metal lath, rolled steel skylights, waterproofing and damp-proofing. Plans in progress.

**Church (rebuilding),** Carlisle, Pa., \$30,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Patrick's Roman Catholic Church, Rev. S. J. Welsh, Carlisle, Pa. Brick, stone trim, 1½ stories, slate roof, hardwood floors, steam heat, electric light, steel truss. Owners will take bids.

**Church, Sunday School and Parish House,** Emaus, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Evangelical Church, Rev. J. S. Savacool, Emaus, Pa. Stone, 1 story and basement, and 2 stories, 107x48 feet, slate roof, metal lath, electric light, cast stone trim, structural steel and cast iron. Revised plans in progress. Bids in two weeks.

**Residence,** Penn Side, Reading, Pa. Architect, Calvin J. Young, 226 N. Sixth street, Reading, Pa. Owner, H. H. Herbein, Windsor street, Reading, Pa. Brick, 2½ stories, 30x50 feet, asbestos shingle roof, hardwood floors, electric light. Owner will build.

**Residences (2),** Penn Side, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Dr. E. W. Bohn, 715 Washington street, Reading, Pa. Brick, 2½ stories, 30x50 feet, asbestos shingle roof, hardwood floors, electric light, tile work. Owner will build.

**Residence and Garage,** Lansdowne, Pa. Architect, private plans. Owner, Judson F. Vodges, 631 Wynnewood road, Philadelphia. Hollow tile and stucco, 2½ stories, 24x38 feet and 18x20 feet, shingle roof, hardwood and cement floors, hot water heat, electric lighting, tile work. Judson F. Vodges, Jr., Highland and Plumstead avenues, Lansdowne, Pa., is taking sub-bids.

**Residence and Garage,** Lansdowne, Pa. Architect, private plans. Owner, name withheld. Hollow tile and stucco, 2½ stories, 24x38 feet and 12x20 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Judson F. Vodges, Jr., High-

land and Plumstead avenues, Lansdowne, Pa., taking sub-bids.

**Residence,** Ardmore, Haverford Township, Pa. Architect, Richard R. Neely, 2126 Pine street, Philadelphia. Owner, John D. Mosser, care of architect. Stone and frame, 2½ stories, 27x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Parochial School,** Oakmont, Delaware County, Pa. Architect, John A. McKibbin, Ind. Trust Building, Wilmington, Del. Owners, St. Denis' Roman Catholic Church, Rev. F. F. Commins, O. S. A., Oakmont, Delaware County, Pa. Brick, reinforced concrete, cut stone and steel, 2 stories, 81x57 feet, asphalt built-up roof, cement, pine and oak floors, electric light, metal lath, tile and marble work, rolled steel sash, bond, waterproofing, terra cotta (heating and plumbing reserved). Architect taking bids due March 15th.

**High School,** Monongahela City, Pa. Architect, William G. Eckles, L. S. & T. Building, Newcastle, Pa. Owners, School District of Monongahela City, Pa. Brick, concrete, cut stone and steel, 2 stories and basement, 201x91 feet, slag roof, cement, maple and mastic floors, safety treads, waterproofing, iron work, iron stairs, bond, hollow metal doors, rolled steel sash and skylights, tile and terrazzo work, metal lath. Owners taking bids due March 20th.

**Parochial School and Convent,** Ridley Park, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Madeline's Roman Catholic Church, Rev. William J. McCallen, Ridley Park, Pa. Stone and steel, 2 stories and auditorium, 69x52 feet, wing 26x40 feet, slag roof, hot water heating, electric light, composition floors, bond. Architect taking bids due March 10th.

**Residence,** Penfield, Pa. Architect, J. Wilmer Thompson, 703 South Sixtieth street, Philadelphia. Owner, George Jackson, 1647 North Robinson street, Philadelphia. Stone and stucco, 2½ stories, 26x40 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Architect taking bids due March 15th.

**Residences (2),** Drexel Hill, Pa. Architect, W. E. Hance, 2126 Pine street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 34x24 feet, shingle (wood) roof, hardwood and composition floors, hot water heat, electric light, tile work. Bids due March 8th.

**Warehouse,** Hazleton, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, Hazleton Wholesale Grocery Co., Hazleton, Pa. Mill construction, 1 story, 40x76 feet, slag roof, concrete floors,

electric light. Architect taking revised bids due March 12th.

**Residence and Garage,** Middletown road, near Baltimore pike, Delaware County, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, J. Max Bernard, Real Estate Trust Building, Philadelphia. Stone, 2½ and 1½ stories, 43x30 feet and 38x27 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Architects taking bids due March 8th at noon.

**Bridge,** near Media, Pa. Architects and engineers, C. W. Brazer, Chester, Pa., and R. J. Adylotte, Media, Pa. Owners, Memorial Bridge Committee, Borough of Media. Owners taking bids due March 13th.

**Garage,** Haverford, Pa. Architects, Furness Evans & Co., 313 South Fifteenth street, Philadelphia. Owner, Allen Evans, 313 South Fifteenth street, Philadelphia. Hollow tile, brick and stucco, 2 stories, 47x23 feet, slate roof, cement floors, electric light, metal lath. Architect taking bids due March 9th.

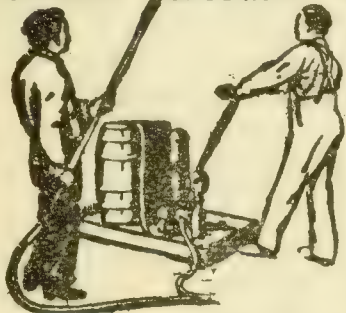
**Memorial Hall,** American Legion Building, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, American Legion, Shamokin, Pa. Tile, marble and bronze. Architect taking bids due March 8th.

**Bank Building,** Perkasio, Pa. Architect, Carl Muller, Bourse, Philadelphia. Owners, Perkasio Trust Co., Perkasio, Pa. Brick, concrete and cut stone, 1 story, 46x58 feet, slag roof, cement floors, steam heat, electric lighting, marble and tile work, iron work. Architect taking bids due March 7th.

**High School,** Chestnut street and Penn street, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Directors, C. H. Kem, secretary, Pottstown, Pa. Lowest bidders: William L. Hampton, Pottstown, Pa., No. 1, \$250,622; No. 1, B, \$15,473. C. W. Strayer, Harrisburg, Pa., No. 1, \$282,997; No. 1, B, \$10,000. Electric, Greenwood Eng. Co., 3314 Lancaster avenue, Philadelphia, No. 2, \$5,533; No. 2, A, \$703. Heating and ventilating, George Faber, Pottstown, Pa., No. 3, \$38,053; No. 3, A, \$3,900; N. Connolly, 1404 North Eighteenth street, Philadelphia, No. 3, \$38,777; No. 3, A, \$3,391. Plumbing, George Faber, Pottstown, Pa., No. 4, \$17,243; No. 4, A, \$988.

**School Building,** Broomall, Delaware County, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, District of Marple Township, S. A. D. Lyon, secretary, Broomall, Pa. Lowest bidders: Stone construction, William R. Beard, Coates-

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ville, Pa., \$48,185; Friel-McLeister Co., 1615 Spruce street, Philadelphia, \$48,444; A. W. Hopeman & Son, Ardmore, Pa., \$49,446. Plumbing, Bell Fleming Co., Ardmore, Pa., \$2,125. Heating, Edgar Heating Co., 1802 Chestnut street, Philadelphia, \$8,700. Electric, J. F. Roney & Co., 1724 Flora street, \$600.

**Business Building**, Red Lion, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Zarfoss & Burg, Red Lion, Pa. Brick and steel, 3 stories and basement, 70x200 feet, composition roof, pine floors, vapor heat, electric light, rolled steel sash, elevators, waterproofing, dampproofing. Plans in progress.

**Stores and Apartments (4)**, Baltimore street, Hanover, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, C. Y. Myers, 305 Baltimore street, Hanover, Pa. Brick, 3 stories, 80x100 feet, composition roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights, store fixtures, waterproofing, terra cotta. Plans in progress. Will be ready for bids April 1st.

**Business Building**, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Manufacturers' Association, care of architects. Fireproof, steel, brick, 3 stories and basement, 60x65 feet, slag roof, hardwood floors, city steam heat, electric light, hollow tile, metal lath, probably elevators, tile and marble work. Plans in progress. Architect will be ready for bids next week.

**Bungalow**, Norristown, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, George L. Eisenbise, Hall street, Spring City, Pa. Frame and cement blocks, 1 story, 30x33 feet, asbestos roof, oak and tile floors (heating, plumbing, lighting and water system reserved), concrete foundations, dumb waiter, plumbing, Morgan doors, bond. Plans in progress.

**Art Museum**, Merion, Pa. Architect, Paul Cret, Otis Building, Philadelphia. Owner, Dr. Albert Barnes, Merion, Pa. Stone, brick and steel. Architect taking bids due March 14th at noon.

## Pennsylvania Contracts Awarded

**Manufacturing Buildings**, Hatboro, Pa., \$175,000. Architects, Austin Co., Bulletin Building, Philadelphia. Owners, Roberts & Mander Co., Eleventh and Washington avenue, Philadelphia. Brick, concrete and steel, 3 stories, 200x60 feet, and 2 stories, 150x40 feet, asphalt and slag roof, mastic, monolithic and maple floors, elevators, waterproofing, rolled steel sash, steam heating, electric lighting. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

**Church, Sunday School**, Mt. Joy, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, United Brethren Church, H. M. Nissley, secretary of Building Committee, Mt. Joy, Pa. Stone, 1 story and basement, 50x80 feet, steam heat, electric light, Carey slate roof, hardwood floors, structural steel and iron work, sheet metal work, bond, cast stone. Contract awarded to Delson & Stephenson, Penbrook, Harrisburg, Pa.

## New Jersey Construction News

**Real Estate and Law Building (add.)**, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, care of Judge Thompson, on premises. Brick, structural steel, 1 story add., 48x95

feet, slag roof, pine floors, heating extension, electric light, tile work, rolled steel skylights. Plans in progress.

**Apartment House**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Youtie & Green, care of architect. Brick and concrete, 3 stories, 40x140 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work. Plans in progress. Will be ready for bids in one week.

**Stores (6), Apartments (11)**, Beach avenue and Stockton Place, Cape May, N. J. Architects, associate, J. Fletcher Street and H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owner, name withheld. Frame and plaster, 3 stories, 90x50 feet, slag roof, hardwood floors, electric lighting, tile work. Plans in progress.

**Residence**, Margate, N. J. Architect, J. S. Connaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Frame, 2½ stories, shingle roof, pine floors, electric lighting. Plans in progress.

**Store House (add.)**, Morris Plains, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Hospital, care of Dr. M. A. Curry, Morris Plains, N. J. Brick, 1 story add., 83x48 feet, tin roof, maple floors, electric light. Architects ready for bids due March 19th.

**Residence (alts. and add.)**, Flemington, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Norman Landis, Flemington, N. J. Metal lath, stucco covered, 2½ stories, 30x30 feet, hardwood floors, tile work, plumbing, general interior and exterior alterations. Owner will take bids.

**Residence**, Avon, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Mrs. H. Shield, Flemington, N. J. Frame, 2½ stories, 30x35 feet, slag roof, hardwood floors, electric light. Owner taking bids.

**Residence**, Bordentown, N. J. Architects, Fowler, Seaman & Co., Fitzcharles Building, Trenton. Owner, Harned Reeder, Bordentown, N. J. Frame, 2½ stories, 32x36 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

**Hotel (alts. and add.)**, Atlantic City, N. J., \$40,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Meyer Waggenheim, Connecticut and Atlantic avenues, Atlantic City, N. J. Brick, 3 stories, 100x175 feet, slag roof, hardwood floors, electric light, general interior alterations. Owner is ready for sub-bids.

**Stores (8), Apartments (6)**, 4200 Ventnor avenue, Atlantic City. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarmov & Shenkman, Guarantee Trust Building, Atlantic City. Brick, stone, 3 stories, 80x170 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, terra cotta. Owners will build.

**Factory**, Trenton, N. J. Architects, Fowler & Seaman, Fitzcharles Building, Trenton, N. J. Owners, New Jersey Porcelain Co., care of architects. Brick, steel, 1 story, 200x250 feet, slag roof, concrete and wood floors, electric light, fire doors. Architect taking sub-bids.

**Store**, North Broad street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Julius Schafer, care of architect. Brick, steel, reinforced concrete, fireproof, 4 stories, 125x27 feet, slag roof, concrete floors (heating and elevators reserved), electric light, metal lath, tile work, rolled steel sash and skylights, roof ventilators. Architect taking revised bids due as soon as possible.

**Court House (alts.)**, Camden, N. J. Archi-

tecs, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Board of Chosen Freeholders of Camden County, James F. Walton, chairman, Court House, Camden, N. J. Painting offices, electric work, changing partitions, bond. Owners taking bids due March 10th at 11 A. M.

**Store (add.)**, 933-35-37 Broadway, Camden, N. J. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Fuhrman, on premises. Brick, steel and concrete, 2 stories, 60x52 feet, slag roof, maple floors, elevator, iron work, bond, tin-lined doors, hollow metal skylights, steam heat, electric light, metal lath. Architect taking bids due March 9th.

**High School**, Ocean City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ocean City School Board, Ocean City, N. J. Brick and steel, fireproof, 3 stories, 194x191 feet (heating, plumbing and electric work reserved), slag roof, hardwood floors, metal lath, hollow tile, tile and marble work, roof ventilators, waterproofing, dampproofing, terra cotta, ornamental iron work. Owners taking bids due March 8th.

**School**, Oaklyn, N. J., \$50,000. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Oaklyn School District, Adolph Jost, Oaklyn, N. J. Brick and frame, 2 stories, 59x146 feet, hollow metal skylights, slate and slag roof, pine floors, electric light, unit system heating. Plans completed. Owners taking bids due March 21st.

**Freight House**, East Trenton, N. J. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Brick and steel, 1 story, 30x75 feet, built-up asbestos roof, pine floors, iron work, bond, rolled steel sash, electric lighting. Owners taking bids due March 8th.

**Residence**, River road, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Lewis B. Traver, 295 Hamilton street, Trenton, N. J. Frame, 2½ stories, 24x45 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect taking bids due March 9th.

**Dairy and Animal Husbandry Building**, New Brunswick, N. J. Architects, Department of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Dr. Lipman, Agricultural College, New Brunswick, N. J. Lowest bids submitted by G. B. Rule, New Brunswick, N. J., \$134,900; Gibbs-Mueller Co., 215 South Broad street, Philadelphia, \$159,989. Plumbing, David Buist, New Brunswick, N. J., \$8,990. Heating, David Buist, New Brunswick, N. J., \$14,900. Electric, Jackson Electric Co., 40 Belvidere avenue, Trenton, N. J., \$7,780.

**School**, Verga, N. J. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, West Deptford Township School Board, Lewis K. Wilkens, Thorofare, N. J. Frame, stucco, brick and steel, 1 story, 78x72 feet, slate roof, maple floors, metal lath, marble work, bond, iron work. Owners taking bids due March 20th at 7 P. M.

**High School**, Gaston street, West Orange, N. J. Architects, Guilbert & Betelle, 546 Broad street, Newark, N. J. Owners, Board of Education, West Orange, N. J. Brick, concrete and steel, 3 stories and basement, 230x105 feet, auditorium, 47x78 feet (plumbing, heating, ventilating, electric work, grading, roads, separate bids). Owners taking bids due March 26th at 8 P. M. Deposit, \$25.00. Refund \$25.00. Albert Wrensch, secretary, West Orange, N. J.

I make it a rule never to write a grouchy letter—I telephone.



## New Jersey Contracts Awarded

**Office and Manufacturing Building,** Camden, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Warren Webster Co., Camden, N. J. Brick and steel, 2 stories, 180x340 feet, slag roof, cement floors, electric lighting, tile work, rolled steel sash and skylights, floor hardener. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

**Garage,** Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton. Owner, Edwin Cook, Broad Street Bank Building, Trenton, N. J. Brick, steel, 1 story, 60x150 feet, asbestos shingle roof, cement floors, steam heat, electric light, steel sash, kalamein doors. Contract awarded to Thomas Day & Son, Fitzcharles Building, Trenton, N. J.

**Parkway School,** Ewing Township, Mercer County, N. J., \$39,869. Architect, R. A. Schumann, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, C. W. Latham, secretary, care of architect. Brick, 1 story and basement, 115x127 feet, slag roof, pine and hardwood floors (heating, electric work and plumbing reserved), metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing, dampproofing, bond, concrete stairs. Contract awarded to Frank J. Nardy Co., 3840 Spring Garden street, Philadelphia.

**School,** Ewing Township, Mercer County, N. J., \$17,950. Architect, R. A. Schuman, 202 State street, Trenton, N. J. Owners, Ewing Township School Board, G. W. Latham, secretary, care of architect. Brick, 1 story and basement, 40x115 feet, slag roof, pine floors, steam heat, electric light, metal lath, safety treads, roof ventilators, metal lath, waterproofing, dampproofing, concrete work. Contract awarded to Frank J. Nardy Co., 3840 Spring Garden street, Philadelphia.

**Y. W. C. A. Building,** Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Y. W. C. A., Mrs. E. G. Bleakly, secretary, Camden, N. J. Reinforced concrete, brick, cut stone and steel, 4 stories and basement, 103x68 feet, promenade tile and slag roof, maple, cement and linoleum floors, elevators, metal ceilings, waterproofing, dampproofing, iron work, iron stairs, bond, kalamein and hollow metal doors and skylights, tile, marble and terrazzo work, metal lath, steam heating, electric lighting. Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphia. Electric, Strang Electric Co., 214 South Seventh street, Philadelphia. Heating, Camden Heating Co., Camden, N. J. Plumbing, W. J. Kelley, Camden, N. J.

## Miscellaneous Construction News

**Factory Building,** Wilmington, Del. Architect, private plans. Owner, name withheld. Brick and steel, 3 stories and basement, 81x82 feet, slag roof, maple floors, electric lighting, rolled steel sash. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Grade School,** Aberdeen, Md. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, School Commission of Harford County, Md., care of M. A. Wright, Belair, Md. Brick, semi-fireproof, 2 stories, 8 rooms. Preliminary plans in progress.

**High School,** Havre de Grace, Md. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, School Commission of Harford County, Md., care of M. A.

Wright, Belair, Md. Brick, semi-fireproof, 2 stories, 12 rooms. Preliminary plans in progress.

**High School,** Bel Air, Md. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, School Commission of Harford County, Md., care of M. A. Wright, Bel Air, Md. Brick, semi-fireproof, 12 rooms. Preliminary plans in progress.

(Continued from Page 148)

and are expected to make possible substantial economies as compared with many of the regulations now in effect.

Good house plans eliminate waste by striking at the source, and the division co-operates with the Architects' Small House Service Bureau, a non-profit making organization which has already prepared a series of over two hundred plans for houses of from three to six rooms. These plans are available at costs averaging about \$25.00 for complete working drawings, specifications, bills of materials, and contract forms.

The Small House Bureau designs represent the best modern practice, and make it possible for the man of moderate means to embody in his house the economies and many of the less expensive conveniences ordinarily embodied in the larger houses whose owners can afford to hire an architect. As standards of building construction and of materials are developed as a result of the recommendations and experiments of the Department of Commerce, they will be included in the designs.

Different types of houses have been designed to meet the climatic conditions of different parts of the country as well as differences in materials available and in the income of home builders.

### SAFE CONSTRUCTION OF BUILT-IN GARAGES

"Motorists who keep their cars in built-in garages, or garages attached directly to the side of their dwellings do not run an undue fire risk if they follow certain elementary precautions," states Mr. Ira H. Woolson, chairman of the Building Code Committee of the Department of Commerce, and consulting engineer of the National Board of Fire Underwriters, in an interview just given out. "We covered the subject of built-in garages for one and two-family houses quite thoroughly in the Recommended Minimum Requirements for Small Dwelling Construction that have just been published by the Department of Commerce," states Mr. Woolson, "and gave directions for constructing them safely, that can be followed by any competent builder.

"If a built-in garage is not properly constructed, it is a menace to life and property. Our investigations showed that if a fire does start in a single or two-car garage, it is not likely to be more severe

than would be withstood by the construction classed as affording one hour fire resistance by the Bureau of Standards of the Commerce Department, the Fire Underwriters' Laboratories, and other authorities. It follows that with an incombustible floor, and the garage separated from the rest of the building by unpierced partitions and ceilings that will meet the one hour fire test, there is no unreasonable fire hazard. Of course, the outside walls must be fire resistant, too, and so must outside windows and the garage doors, in order to prevent flames from breaking out and spreading fire through windows, or to exterior wood work above. The code does permit, under stringent safeguards, a single swinging, self-closing fire door leading from the garage directly into the house, but we strongly advise that there shall be no opening whatever between the two. It is much safer to enter the garage from the outside."

For the sake of motorists and builders who desire complete directions, Mr. Woolson has prepared below a statement, giving the six rules from the code, together with the directions for carrying them out, as given in the appendix, with a few changes to simplify the wording, which was a little more technical in the original in order to make the rules more practical to enforce. The rules are here arranged by Mr. Woolson "from the ground up" starting with floor construction, walls and partitions, then outside doors and windows, and dealing finally with the permissible case of a door directly between the garage and the dwelling.

Rule 1. Garage floors shall be of concrete or equally fire resistive and impervious material.

For convenience in cleaning and to prevent dangerous accumulations of water, oil or grease, all parts of the floor should drain naturally.

Rule 2. Walls and partitions shall be built to meet the requirements of the standard one hour fire test (mentioned above.)

Many materials are acceptable under this rule, such as brick, hollow tile, concrete block, or gypsum block four inches thick, or reinforced concrete three inches thick. As a minimum requirement, walls may also be constructed of wooden studs spaced 16 inches center to center, with metal lath attached outside and inside. The outer lath is to be plastered and back-plastered with Portland cement stucco, and the inner lath plastered with ¾ inch Portland cement or gypsum plaster. For interior partitions separating the garage from the rest of the dwelling, ¾ inch Portland cement or gypsum plaster on metal lath, on both sides of studs spaced 16 inches apart, is satisfactory. The specifications for metal lath and plaster to be



used are given fully in the Code Committee's Report.

Rule 3. The combined floor and ceiling construction directly above the garage shall be unpierced, and shall have a fire resistance of one hour. The same rule applies to the roof when the garage is attached to the side of the building.

Ceilings or roofs of reinforced concrete, or some other type of incombustible construction that meets the fire test, are best and most reliable. In the case of true built-in garages, a good, inexpensive overhead construction is as follows:

Ordinary 2 inch or thicker floor joists may be used, spaced not more than 16 inches center to center, and properly bridged. The ceiling should be of heavy metal lath weighing not less than 3 pounds per square yard, and Portland cement or gypsum plaster not less than  $\frac{3}{4}$  inch thick. The metal lath is to be attached to the joists by sixpenny nails driven nearly home and the heads turned over against the lath, and is to be bent down 6 inches along the walls on all sides and securely attached to them. The flooring above the ceiling is to be double, of  $\frac{7}{8}$  inch rough and finished floor boards, with a layer of asbestos or other high grade floor felt between.

Where the garage is attached to the side of a dwelling, an equivalent construction for the roof can easily be devised.

Rule 4. When a garage is located beneath a dwelling, all outside doors and windows with their frames and sash shall be of standard fireproof construction, and glazed with wired glass.

Only products approved by competent authorities should be used. A large variety of fire doors and windows have been tested and approved by the Underwriters' Laboratories, and are a standard commodity in the building material market. It is important that such devices should be installed in metal frames, and that the same hardware be used as that with which they were equipped when tested. If not, they may fail during a fire. Fire doors are made in both swinging and sliding types, and many of the former are as artistic as wooden doors. Wired glass glazing is required in all outside windows and doors to prevent flames from a fire in the garage from breaking through and endangering the structure or windows above.

Rule 5. Openings from a dwelling into a garage shall be restricted to a single doorway. This opening shall be protected by a standard swinging, self-closing fire door, with approved fire resistive frame and hardware. No glass shall be permitted in such a door.

A self-closing fire door is one that normally swings shut by a mechanical device. A swinging door is required because it fits closely into its frame, and thereby prevents passage of heat and smoke when attacked by fire. Wired glass is not allowed in this door because it is liable to soften and sag from its fastenings at a temperature of about 1600 degrees Fahrenheit, which is a heat easily produced by burning gasoline or oil. But, as stated above, it is better to have no opening in any of the partitions.

Rule 6. When a doorway connects directly with a cellar or basement on the same or lower level in which there is any heating device or gas fixture, the door sill shall be raised at least one foot above the garage floor level, or the doorway shall lead into a vestibule which connects with the cellar or basement by a second door.

This is to prevent fumes from gasoline which may leak or be spilled upon the floor from reaching a furnace fire or gas light that might be located in any lower portion of the building. It is well known that gasoline vapors are heavier than air, and will accumulate on a floor like water, and flow to any lower level, and if they come in contact with fire of any kind—even a spark—will ignite and flash back to the starting point, and cause an explosion. Hence the high door sill.

**You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.**

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

## GAIN IN CONSTRUCTION IN PHILADELPHIA \$3,511,305 THIS YEAR

*Permits for 2263 Operations to Cost \$13,304,060*

An increase of \$3,511,305 for all classes of construction for the two months of this year as compared with the same period of last year is shown in the statement compiled by William Gamble, of the Bureau of Building Inspection, Philadelphia.

So far permits have been issued for 2263 operations, estimated to cost \$13,304,060. Last month permits totaled 1295, on operations estimated to cost \$6,799,960. It was the second best February in the last ten years; 1920 was higher by about \$109,000.

Dwelling construction has again taken first place in cost, losing this position in January for the first time in fifteen months. Permits were issued for 633 houses of the two and three story brick type to cost \$2,690,650. Alteration and addition work reached more than \$1,000,000.

The statement showing construction for which permits were issued in February follows:

	Permits	Operations	Estimated Cost
Dwellings, one story.	1	1	\$1,400
Dwellings, two story.	116	597	2,289,400
Dwellings, 3 sty.....	12	28	367,300
Dwellings, frame ...	6	7	32,550
Tenement houses....	6	15	348,000
Manufactories .....	8	8	129,500
Workshops .....	3	3	4,900
Garages .....	68	69	110,635
Office buildings.....	7	7	514,300
Stores .....	1	1	900
Warehouses .....	5	5	61,000
Halls .....	1	1	30,000
Hotels .....	1	1	900,000
Bank buildings .....	1	1	25,000
Power Houses .....	1	1	125,000
Miscellaneous bldg..	9	9	32,360
Additions .....	122	122	676,590
Alter. and repairs...	259	277	494,230
Miscellaneous work ..	91	91	26,210
Heaters .....	13	14	14,625
Fire escapes .....	9	9	4,125
Signs .....	28	28	11,935
Totals .....	768	1295	\$6,799,960

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co., Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop, 1520 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T., Narberth, Pa.  
Mitchell Bros., 2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy, Merion Station, Pa.  
Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co., Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co., 133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co., 1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Contract Waterproofing Co., Harrison Bldg., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
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Well, J. H., Co., 1315 Cherry St., Phila.

## ENGINEERS

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McCarrick Bros., 3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## FENCES.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co., 316 N. 3rd St., Phila.  
Wayne Iron Works, Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Thos. F. Gibson, Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros., 44 N. 5th St., Phila.  
Miller, Henry M., 46 N. 2nd St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros., 44 N. 5th St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co., Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros., 3138 N. 24th St., Phila.  
Riddle, Wm. H., 1110 S. 31st St., Phila.

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Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co., 2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

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Fitzgerald, J. J., & Co., 2nd and Butler Sts., Phila.  
Ketcham, O. W., 121 N. 18th St., Phila.

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## INSURANCE

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## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W., 18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips, 1511 Sansom St., Phila.  
Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
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## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard, 3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co., 10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co., 433 Spruce St., Phila.  
Roman Mosaic & Tile Co., 435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co., Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

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Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

Wayne Iron Works, Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

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## PAINTS AND VARNISHES.

Truscon Laboratories, 1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W., 121 N. 18th St., Phila.

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Keystone Blue Paper Co., 910 Filbert St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.

## RANGES

Borden Stove Co., 1026 Arch St., Phila.  
Miller, Henry M., 46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co., 1026 Arch St., Phila.  
Miller, Henry M., 46-48-50 N. 2nd St., Phila.

## ROAD WORK.

Croyle, Guy, Merion Station, Pa.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
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Emack, The John D. Co., Otis Bldg., Phila.  
Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## ROOFING SLATE.

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Emack, The John D. Co., Otis Bldg., Phila.

## ROOFING TILE.

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Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
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Cyclone Fence Co., 18 S. 7th St., Phila.

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Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H., 27th and Diamond Sts., Phila.

## SHEET METAL WORK.

Tinney, Walter H., Co., 63rd and Woodland Ave.

## SHEETROCK (Wall Board)

Pearce Fireproof Co., 1345 Arch St., Phila.  
Tague, Jas. E., & Co., 10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
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## SLATE

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## SOUNDINGS.

Artesian Well Drilling Co.,  
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Ridpath & Potter Co.,  
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## STAIRS (Sheet Steel).

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## STUCCO.

Daniel C. Sinclair, East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S., Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W., 121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co., 433 Spruce St., Phila.  
Carroll, Thos. A., 269 S. 11th St., Phila.  
Roman Mosaic & Tile Co., 435 Green St., Phila.

## TRANSITS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Well, J. H., Co., 1315 Cherry St., Phila.

## VENTILATORS

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Tague, Jas. E., Co., 10th and Columbia Ave., Phila.

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## WATER HEATERS.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros., 44 N. 5th St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## WATER PAINT.

Bayless, W. L., & Son, Sharon Hill, Pa.  
Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

## WATERPROOFING.

Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Contract Waterproofing Co., Harrison Bldg., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## WHITEWASHING.

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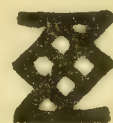
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 11

March 14, 1923

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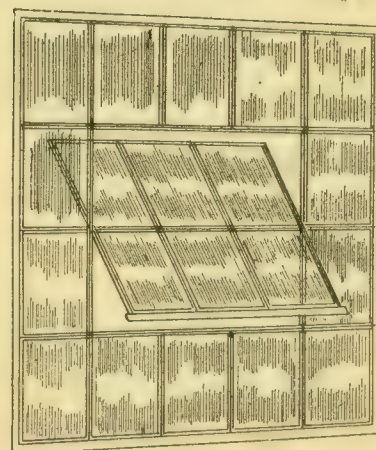
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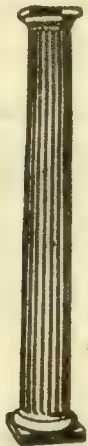
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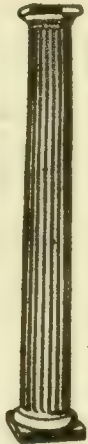


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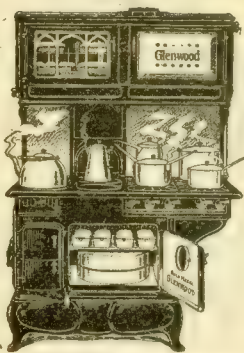
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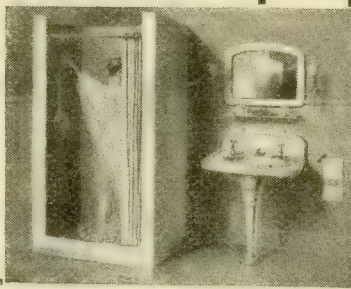
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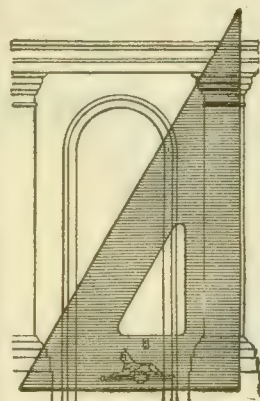
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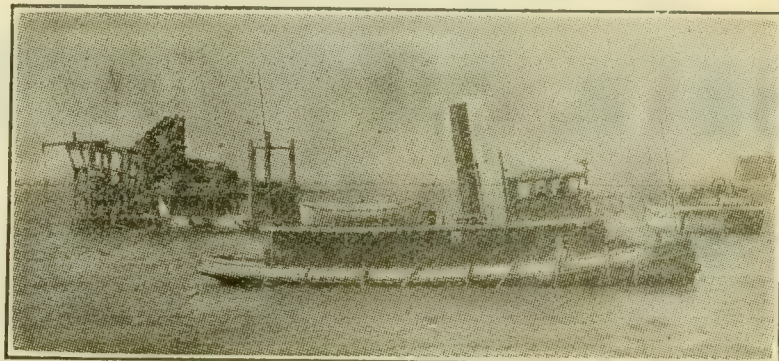
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 11

PHILADELPHIA  
March 14, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

Advertising Manager, L. A. DeLone

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To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

Subscriptions not discontinued at expiration  
unless so ordered

Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### MUST HALT SPREE OF SHORT HOURS AND HIGH WAGES IN BUILDING INDUSTRY

BY JOHN W. COWPER

*President, Associated General Contractors of America*

The construction industry, rated as the second of importance in the nation, has gone forward in the past year with a tremendous stride, the grand total in volume of work done being the largest of any year in our history. I have not the complete figures, but in building construction alone the total approximates \$4,000,000,000, of which over 40 per cent. was for housing or residential purposes, in part making up the great deficiency in this type of buildings brought about by the war.

With this great activity in the building industry, we have seen costs of construction rise sharply. Assuming 1913 as 100 per cent., building costs rose to over 270 per cent. at the peak in 1920, and, at the end of 1921, they have declined to approximately 160 per cent. which, I believe considering the post-war conditions, was near what we might have expected as normal. But with the increased construction in 1922 prices have again risen, until last December the record shows that they reached 190 per cent.

While labor, both skilled and common, is now receiving as high, if not the highest wages of any time in our national his-

tory, and with the indications pointing to demands for further increases, you will agree, considering the fact that wages are approximately 45 per cent. of the direct cost of building, that we are probably facing a period of higher costs of construction which, if continued, will prove to be a serious check to the healthy progress of the construction industry. We must find a way to stop this trend towards higher prices and, while we believe in sane ideals and ambitions for the so-called laboring class of this country, a continuance of this present spree of short hours and high wages is bound ultimately to result to their detriment.

We are suffering from a shortage of labor to all industries, and particularly in construction. The supply of workmen is not keeping pace with the demand, which in itself is an unsound condition. We need and should have, a revision of our immigration laws so as to permit a sufficient number of immigrants, those to be of a superior quality (and the latter is, more important than the former) based on a selective system, elastic as to the numbers admitted and regulated by the needs of our industries; and this law should by all means include a provision for examination by proper authorities of the prospective immigrants at the port of embarkation, the unit of admission to be by families and not individuals for our own good and, just as important, for the good of the immigrant and of humanity.

### *Develop Apprentice System*

We are dependent in this country, to a large extent, upon foreign countries for our supply of labor and from them it is our duty to make as well as from the younger generation of our citizens, the artisans and skilled mechanics that we require. It is, therefore, necessary that we should advocate the establishment of trade or vocational schools, and, by all means, we must develop to its highest possible degree the apprenticeship system in all lines, not only for the purpose of supplying ourselves, from a selfish standpoint, with the mechanics we require, but to build up our citizenship and help every man to a higher plane in life.

We have suffered in the past few years, particularly in the year 1922, from the disorganization of our transportation systems. I believe our canals and rivers should be developed to their fullest capacity, in conjunction with the railroad systems; and, of course, as feeders and tributaries to both of these, we need the development of our highways.

With regard to the railroads, I have been recently informed that there are pending in Congress, or rather have been introduced, some 130 odd bills affecting transportation, most of which are not likely to be considered because they are of no real importance and have been introduced for some selfish motive; others, I am informed, and a great majority of them, will tend to hamper and retard

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our transportation progress. I believe there is no greater service that we can do for our country and ourselves than to aid by a broad liberal policy the development of transportation in every form and to see that our railroads get a fair and square deal, by which they are able to secure the necessary capital for much needed enlargements and improvements.

#### *Railroads Need More Income*

We have had the best transportation system with the lowest rates and with the smallest capitalization per mile of any nation, and if we expect to hold this place the railroads must have the means whereby they can keep pace with the growth of the country. I would like to see the rates of freight reduced; but I believe if they reach such a point as not to produce a fair return on the capital invested, as well as not to provide for additional facilities, that we are only working to our detriment and will ultimately have to pay for such folly.

—*Manufacturers' News.*

#### HOW TO BRING YOUTHS INTO THE TRADES

*The Surest Means of Reaching the Boy and the Appeal That Will Win His Enlistment*

Same story everywhere, east or west. Plenty of unskilled labor in every city, but too few skilled workmen. Closed shop or open shop, organized or unorganized, bonus or straight salary, it makes no difference. The men are not available. If a job is thoroughly unionized, the poor, unfortunate steward goes crazy trying to uphold his end of the bargain. On other work, the contractor gets grayheaded looking for men.

#### *How Wages Compare*

Contrast the building tradesmen's wages with those paid to men in other vocations. A clerk in a dry goods store gets \$2.50 a day and the privilege of buying a few things at almost wholesale. A bricklayer gets from \$12 to \$15 a day. A fair bookkeeper draws down from \$75 to \$100 a month. Plasterers make that much in a week. Yet the employment agencies are full of boys, anxious to be clerks and bookkeepers, none of whom have even considered learning a skilled trade.

In bricklaying, plastering, steam fitting, electrical installation, and in many other classes of skilled labor, there is no chance for the boys to learn all by themselves. Apprentice schools are needed, and many of them. And it is up to the business associations of America, the Associated General Contractors, the Master Builders, the Builders' Exchanges, and the Chambers of Commerce to see that these schools are started in every city and to support them and keep them going after they have started.

It is a big question, too big for any local organization to handle. Once the schools have been organized, whence are the teachers to come? The skilled mechanic will help you get things going, but when he can earn from \$10 to \$30 a day at his trade is he to be blamed if he does not wish to accept a teacher's salary? College presidents, to say nothing of trade school instructors, get less than that. Possibly these posts may be filled by the older men, master workmen who have found that advancing age has made the pace just a little too stiff for them, and who will be glad to settle down in one place and see their work carried on by their pupils.

Then comes the biggest problem of all. Where shall we get the pupils? How shall the present stream of young men which is flowing into the mercantile and professional fields be diverted into another channel? There is but one place in which to reach them, the public school and so far everyone has neglected this unfailing source of supply.

Go to any high school in the United States and look over the list of men who have addressed the boys on the question of their future careers. The banker has told them of the unlimited prospects in his chosen field. The doctor, the lawyer, the engineer, the realtor, the insurance broker, have all appeared before the boys and shown them the bright side of these professions. Has anyone ever talked to them on the tremendous possibilities which lie before the skilled builder? I doubt it.

#### *Visions That Inspire the Boys*

Every boy looks forward to the day when he will own his own business. He takes a position as clerk, not for the immediate cash return, but to learn the game, from the bottom up. In later years, when he is still a clerk, he will be disillusioned, but as a youngster he is full of dreams. He hopes that he will have his own store some day, and be independently wealthy. The boy who is running rod on a survey party is accepting the pitiful salary today so that in future years he may have his own office, with a hundred men working under him. The young bookkeeper is looking forward to the time when his name will appear on the president's door of his own bank. The cub reporter already has his eye on the country newspaper which will be his in a few years.

The boy has no such vision as to the future of the skilled mechanic. Picturing himself as such, he can only see himself in overalls, working for some one else and dependent on casual employment, all his life. The master builder must show the youngster that there are even greater chances for independence in the field of

(Continued on page 176)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Apartment House**, 1732 to 1736 Christian street, Philadelphia. Architect, C. Henry Wilson, 2038 Berks street, Philadelphia. Owners, Acme Realty Co., 1332 Lombard street, Philadelphia, care of Richard Cooper. Brick, 3 stories, 50x132 feet, asphalt roof, hardwood, cement and composition floors, hollow tile, hot water heat, electric light, metal lath, tile and marble, hollow metal skylights, fire tower. Plans in progress.

**Store and Office Building**, Northeast Corner Orthodox and Frankford avenue. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, William Thomas, care of architect. Brick, steel and cut stone, 3 stories, 23x120 feet, slag roof, composition floors, hot water heat, electric light, metal lath, tile and marble work, hollow metal skylights, metal ceilings, copper bars and cornice. Plans completed. Architect will be ready for bids in a few days.

**Sales and Service Building**, 1427 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Jacob C. Kahn, Morris Building, Philadelphia. Plans in progress. Too early for details.

**Sales and Service Building**, 2514-16-18 North Broad street. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Jacob C. Kahn, Morris Building, Philadelphia. Plans in progress.

**Commercial Building**, West side of Broad street, between Catherine and Christian streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, care of Charles Kahn, Morris Building, Philadelphia. Too early for details. Plans not yet started. Size of lot, 225x150 feet.

**Store, Apartment and Garage**, location withheld. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, 2 and 1 stories, 18x109 feet and 28x16 feet, slag roof, electric light, metal lath, tile and marble work, metal ceilings, iron work, bond, metal bulks, fire doors, hollow metal skylights. Plans in progress. Architect will be ready for bids in two weeks.

**Store (alts.)**, Southeast Corner Sixteenth and Columbia avenue, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Jacob Goldsmith, Bulletin Building, Philadelphia. General alterations,

composition floors, lighting reserved, marble work, plate glass, new bulks. Plans in progress.

**Store (alts.)**, 1210 North Fifty-second street, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Carl Grunfeld, on premises. New front and minor alterations. Plans in progress.

**Store and (5) Apartments**, Thirteenth and Panama streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Jules Junker, 211 South Thirteenth street, Philadelphia. Changing present building into store and apartments, hardwood and linoleum floors, vacuum heating, electric lighting, plumbing, tile work. Plans in progress. Architect will be ready for bids in one week.

**Ice Manufacturing Plant**, Crescent Valley Plant, Southeast Corner Crescent Valley road and East Moreland avenue, Chestnut Hill, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Glen Willow Ice Co., 4517 Main street, Manayunk. Brick and terra cotta, 1 and 2 stories, 189x285 feet, composition roof, wood block floors, structural steel, ribbed wire glass, hollow metal skylights, rolled steel sash, electric lighting, plumbing, heating, cork insulation. Plans about completed. Architect will be ready for bids in a few days.

**Twin Residence**, Tenyon and Yale avenue, Swarthmore, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, George W. Gregory, Swarthmore, Pa. Penn Building Block, 2½ stories, 36x36 feet, shingle roof, hot water heating, electric lighting, tile work, pine floors. Owner will build.

**Apartment House**, Forty-eighth and Walnut streets, Philadelphia. Architects and engineers, Jesse L. Stetler and M. Harvey Deysher, 1484 North Fifty-second street, Philadelphia. Owner, Samuel Cohen, 411 South Sixty-second street, Philadelphia. Brick and steel, 4 stories and basement, 187x104 feet, contains 60 apartments, slag roof, composition and hardwood floors, (5) elevators, roof ventilators, terra cotta, screens, ornamental iron work, structural steel, fire doors, tile and marble work, metal lath, vapor heating, electric lighting. Owner is taking sub-bids.

**Stores (5), Apartments (5) and Shop (add.)**, Northwest Corner Seventeenth and Green streets, Philadelphia, \$17,000. Architect, pri-

vate plans. Owner, A. S. Shafer, on premises. Brick, 3 stories, excavation, underpinning, cement work, carpentry, mill work, sheet metal work, hot water heating, metal lath, flush bulks, stair work, slag roof, plastering, painting, glazing, hollow tile, steel and iron work, flush bulks. Owner will build and is taking sub-bids.

**Residences (38)**, Northeast and Southwest sides of Wilmot street at Torresdale avenue. Architect, private plans. Owner, Francis B. J. Branagan, Marshall and Bristol streets. Brick, 2 stories, 15x38 feet, slag roof, hardwood and pine floors, hot water heat, electric lighting. Owner is taking sub-bids due March 15th.

**Apartments (12)**, 4029-31 Walnut street, Philadelphia. Architect, private plans. Owner, M. Gifferblatt, 149 North Fourth street, Philadelphia. Brick, 3 stories, 40x90 feet, slag roof, hardwood floors, steam heating, electric lighting, tile work, terra cotta, iron work. Owner is ready for general and sub-bids.

**Operation of Twin Residences**, near Torresdale avenue, Tacony, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Peter E. Costello, Commercial Trust Building. Brick and stone, 2 stories, 16x38 feet each, slag and shingle roof, hardwood and pine floors, hot water heating, electric lighting. Owner is ready for sub-bids.

**Bank, Store and Dwelling Building**, Old York road and Sixty-seventh avenue, Oak Lane, Philadelphia. Architects, McLanahan & Beckert, Bellevue Court Building, Philadelphia. Owners, Oak Lane Trust Co., care of architect. Brick, cut stone, steel and reinforced concrete, 2 stories and basement, 184x61x10 feet, slag roof, cement, oak and pine floors, hot water heating, electric lighting, metal lath, tile and marble work, bond, iron work, waterproofing. Architect taking bids due March 17th.

**Laundry Building (add.)**, Thirty-second street above Powelton avenue. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Pennsylvania Laundry Co., on premises. Reinforced concrete, brick, steel and cut stone, 3 stories, 92x81 feet, slag roof, composition and maple floors, roof ven-

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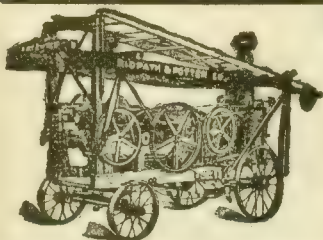
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tilators, iron work, bond, fire steel doors, tile work (plumbing, electric work, elevators, sprinklers reserved). Architect taking bids due March 15th at noon.

**Synagogue (alts.),** 3940 Girard avenue, Philadelphia. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owners, Congregation Tiffereth Israel of Parkside, on premises. Brick work, steel work, castone, slag roof, composition and pine floors, heating and lighting alterations, metal lath, bond, terra cotta, ornamental iron work, leaded glass. Architect taking bids due March 15th.

**Store and Factory (alts. and add.),** Ninth and Kimball streets. Architect, M. A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Kurtz Brothers, 1021 South Ninth street, Philadelphia. Brick, concrete and steel, 3 stories, 52x38 feet, slag roof, cement and maple floors, roof ventilators, terra cotta, bond, rolled steel sash and skylights (heating, electric work, plumbing and elevators reserved). Architect taking bids due March 15th.

**Residence and Garage,** Northeast Corner Allen lane and McCallum street, Chestnut Hill, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, William H. Wilson, 1617 Walnut street, Philadelphia. Stone, 2½ stories, 81 feet 4 inches x 28 feet 10 inches, slate roof, hardwood floors, cement work, tile work (heating, electric work and plumbing reserved). Architect taking bids due March 17th at 2 P. M.

**Memorial Cottage,** Fifty-eighth and Kingessing avenue, Philadelphia. Architects, E. Kenny Brothers, Media, Pa. Owners, Presbyterian Orphanage (Mrs. Charlotte S. McCannely), on premises. Stone, 2½ stories, 75x40 feet, slate roof, mineral, oak and pine floors, iron work, steam heating, electric lighting, tile work. Architect taking bids due March 22nd.

**Building,** Northwest Corner Thirty-third and Arch streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Kraftsow & Titelman, care of architect. Reinforced concrete, brick, artificial cut stone and steel, 7 stories and basement, 74x190 feet and 45x73 feet, slag roof, concrete floors, roof ventilators, dampproofing, iron work, iron stairs, floor hardener, cold water painting, mail chute, bond, peeel, kalamain and hollow metal doors, rolled steel sash and skylights, tile and marble work, metal lath. Architect taking bids due March 17th at 10 A. M.

**Residence and Garage (alts. and add.),** Southwest Corner Broad and Castle avenue, Philadelphia. Architect, D. J. Pappano, Thirteenth and Reed streets, Philadelphia. Owner, Dr. A. Bove, on premises. Brick and brownstone, 1 story, 29x37 feet, quarry tile roof, alterations to heating and plumbing,

electric work. Owner taking bids.

**Office Building,** Northeast Corner Fifteenth and Manning streets. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Benjamin Dintenfass, Lafayette Building, Philadelphia. Reinforced concrete, brick and steel, 3 stories, 16x52 feet, slag roof, concrete floors, hollow tile, metal lath, rolled steel skylights, bond, floor hardener, metal stairs, iron work. Bids due March 20th.

**Store and Apartments (alts.),** 800 North Sixteenth street, Philadelphia. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, Mrs. Betty Elman, on premises. Excavation, underpinning, lowering floors, cement work, mill work, plastering, painting, glazing, tile work, iron work. Owner taking bids.

**Store (alts. and add.),** Twenty-second and Berks streets, Philadelphia. Architects and engineers, J. L. Stetler and M. H. Deysher, 1484 North Fifty-second street. Owner, Jacob Grass, on premises. Interior alterations and rear addition, brick, 1 story, metal sash. Owner is taking bids.

**Building (alts.),** 5011 Germantown avenue, Philadelphia. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, Joseph P. Veasey, on premises. Carpentry, mill work, steel and stucco (heating alts.), electric work, plumbing, metal lath, plastering, composition floors, painting, glazing, flush bulks. Owner taking bids due March 15th.

**Residence,** Arbutus street, Germantown, Philadelphia. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, Daniel Badger, Jr., Forty-fifth and Osage avenue, Philadelphia. Stone and cut stone, 2½ stories, 28x54 feet, slate roof, oak and pine floors, tile and marble work (heating, electric work and plumbing reserved). Architect taking bids due March 15th.

**Residences (10),** North side Cobb's Creek Parkway, West of Sixty-first street, Philadelphia, \$15,500 each. Architect, private plans. Owner, Charles Armstrong, 6006 Cobb's Creek Parkway, Philadelphia. Brick, 2 stories, 17x35 feet and 20x26 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will build.

**Residences (2),** North side Deveraux street, West of Dittman, \$5,000. Architect, private plans. Owner, Jacob Pfaff, 6642 Hegerman street, Philadelphia. Brick, 2 stories, 16x53 feet, slag roof, electric lighting, oak and pine floors. Owner will build.

**Residences (24) and Store (1),** D and Luray streets, Philadelphia, \$93,636. Architect, private plans. Owner, Thomas J. McGarvey, 709 Penfield Building, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, hot water heating, electric lighting. Owner will build.

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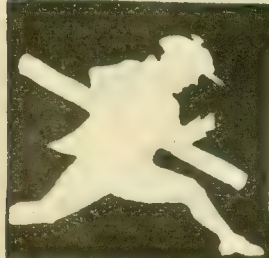
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**Residences (14)**, Fourth street, Lawrence and Grange streets, \$4,500 each. Architect, private plans. Owner, P. A. G. Hermann, 430 Duncannon street, Philadelphia. Brick, 2 stories, 15x41 feet, slag roof, oak and pine floors, hot water heat, electric light. Owners will build.

**Residences (17)**, 5214-5230-48 North Hutchinson street, \$4,000 each. **Residences (6)**, 5209-19 North Eleventh street, Philadelphia, \$5,000 each. Owner, Henry P. Schneider, 3713 York road, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, electric lighting. Owner will build.

**Residences (7)**, Howarth and Horrocks and Oxford and Dyre, \$6,000 each. Architect, private plans. Owner, Harry Drake, 3139 Frankford avenue, Philadelphia. Brick, 2 stories, 20x37 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Dye House and Boiler House**, North side Huntingdon street, West of Martha, Philadelphia, \$20,000. Architect, private plans. Owners, Pennsylvania Axminster Carpet Co., 1011 Diamond street. Brick, 1 story, 60x64 feet, slag roof, steel sash, cement floors. Owners will build.

**Residences (7)**, East side Chalmers street, North of Somerset street, \$28,500. **Residences (2)**, West side Newkirk, North of Somerset street, \$8,400. Owner, J. Hanley Smith, 1215 Walnut street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, electric lighting, oak and pine floors. Owner will build.

**Residences (12)**, High and Stenton avenue and Mechanic street and Stenton avenue, Philadelphia, \$46,000. Architect, private plans. Owner, James P. McMahon, 4844 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 14x31 feet, 9x7 feet, slag roof, hot water heat, electric light. Owner will build.

**Storage (add.)**, Southwest Corner Twenty-fifth and Wharton street, Philadelphia, \$3,000. Architect, private plans. Owners, Penn Metal Co., on premises. Iron, 1 story, irregular size, cement floor. Owner will build.

**Garage (add.)**, East side Watts street, North of Girard, \$5,000. Owner, A. W. Pusey, Broad and Girard avenue, Philadelphia. Brick, irregular size, slag roof, cement floors, electric work. Owner will build.

**Residences (2)**, South side Suffolk avenue, East of Beech avenue, \$2,500 each. Architect, private plans. Owner, John Yoskin, 5624 Larchwood avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, hot air heat, electric light. Owner will build.

**Residences and Garages (6)**, Lincoln Drive and Emlen street, \$51,000. Architect, private plans. Owners, Samuel Harting & Son, 20 East Johnson street, Philadelphia. Brick, 2 stories, 20x25x14 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owners will build.

**Residences (4)**, South side Bleigh street, East of Lawndale, \$4,000 each. Architect,

private plans. Owner, Louis Leitenberger, 7345 Oxford avenue, Philadelphia. Brick, 2 stories, 14½x42 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residence**, West side Tabor road, South of Cottman, \$4,500. Architect, private plans. Owner, August Glaser, 1646 North Eighth street, Philadelphia. Brick, 2 stories, 16x37 feet, 8x7 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (13)**, 6300-24 Allman street, Philadelphia, \$66,000. **Residences (9)**, 6301, 6307-23 Allman street, Philadelphia, \$46,000. Architect, private plans. Owner, Thomas F. Farris, 5213 Chestnut street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (17)**, Sixty-eighth and Upland avenue, Philadelphia, \$104,000. **Residences and Garages (3) and Residence and Store (1)**, Sixty-eighth and Greenway avenue, Philadelphia, \$28,800. Architect, private plans. Owners, Berman & Lieberman, 320 North Sixtieth street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood, pine and cement floors, electric light, hot water heat. Owners will build.

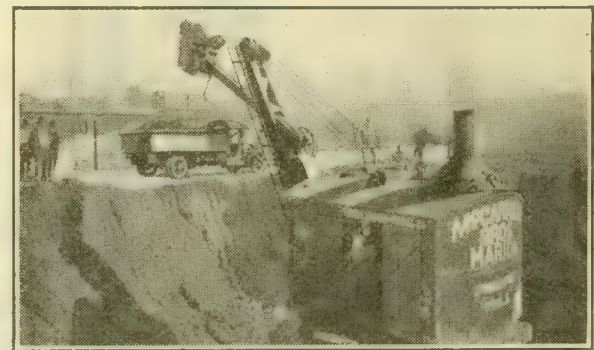
**Residences (2)**, North side Cottman street, East of Montrose, \$5,000 each. Architect, private plans. Owners, Henry and Anna Kuhn, 7320 Claridge street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood floors, hot water heat, electric light. Owners will build.

**Residences (2)**, South side Cottman street, West of Claridge street, \$5,000 each. Architect, private plans. Owner, John H. Bauer, 4543 North Fifth street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Store (alts.)**, Southeast Corner Thirty-ninth and Lancaster avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Isaac Fleisher, 4105 Market street, Philadelphia. General alterations. Owner will build.

**Residence (alts.)**, 515 East Girard avenue, Philadelphia, \$2,000. Architect, private plans. Owner, W. Howard Wetzel, on premises. General alterations. Owner will build.

**Schools (2)**, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bidders: Fifty-fourth and Berks streets, Philadelphia—Sinclair & Griggs, Medical Arts Building, \$445,800; Cramp & Co., Denekla Building, Philadelphia, \$464,569; heating, William Earley's Sons, 1216 Ridge avenue, Philadelphia, \$44,900; plumbing, Bulman



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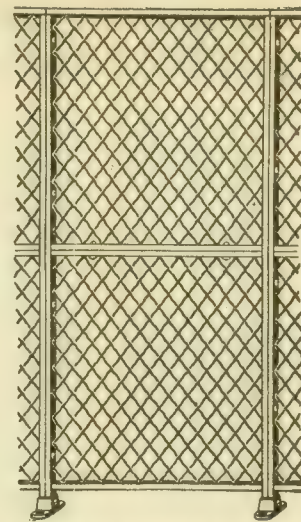
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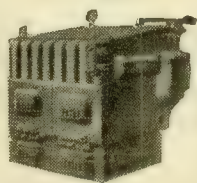
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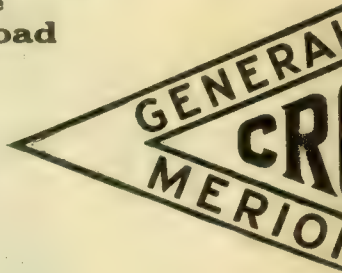
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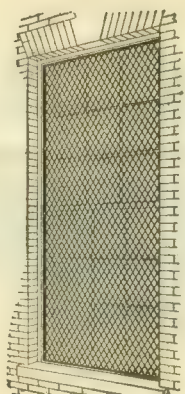
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Brothers, Fifth and Cumberland streets, \$21,916; electric, Ross Electric Co., Beach and Brown streets, \$17,400; ventilating, William Howlett, Fourth and Columbia avenue, \$1,413. Seventeenth and Lindley avenue, Philadelphia—Sinclair & Griggs, Medical Arts Building, \$478,800; William R. Dougherty, 1610 Sansom street, \$490,000; heating, William Earley's Sons, 1216 Ridge avenue, \$44,000; electric, Walker Kepler Co., 531 Chestnut street, \$17,233; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$21,366; ventilating, William Howlett, Fourth and Columbia avenue, \$1,413.

**Schools**, electric work, various locations, Philadelphia. Lowest bidder, Walker Kepler, 531 Chestnut street, Philadelphia. Gustavus S. Benson, \$2,843; McDaniel, \$2,843; Fitler, \$2,789; Germantown No. 1, \$2,533; Franklin, \$937; Hoffman, \$2,395; Morton, \$3,246; Hamilton, \$2,643.

**Schools**, painting. Kensington High, Albert Kuehne, Seventeenth and Vine, \$10,150; Kenderton, James McAlpine & Son, 1713 North Twenty-fourth street, \$3,775; Boker, O. B. Cannon, 5315 Greenway avenue, \$3,420.

**Fannie M. J. Coppin Memorial**, Tenth and Lombard streets. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Brick, concrete, limestone and steel, 2 stories and basement, 45x120 feet, slag roof, maple floors, metal doors (heating, plumbing and electric work separate bids). Lowest bidders: S. Sidney

Lewis, Real Estate Trust Building, Philadelphia—Item A, \$95,678; Item B, \$95,178; Robbins Cont. Co., 1137 North Front street, Philadelphia—Item A, \$96,900; Item B, \$95,773. Plumbing, Daniel Keating, 2042 Rittenhouse street, \$5,532. Heating, Frank M. Colbert, 5208 Baltimore avenue, \$6,468. Electric, Walker Kepler Co., 531 Chestnut street, \$4,444.

**Paving**, Philadelphia. Owners, Department of Public Works, City Hall, Philadelphia. Owners taking bids due March 13th at 216 City Hall.

**Asphalt Paving**—Clearfield street, from Second street to Hancock street; Ella street, from Indiana street to Clearfield street; Livingston street, from Ontario street to Tioga street; Luzerne street, from Second street to Oxford branch P. R. R.; Madison street, from Marston street to Etting street; Oxford street, from Fifty-ninth to Sixtieth street; Tioga street, from Aramingo avenue to Gaul street; Sixteenth street, from Sixty-seventh avenue to Sixty-eighth avenue.

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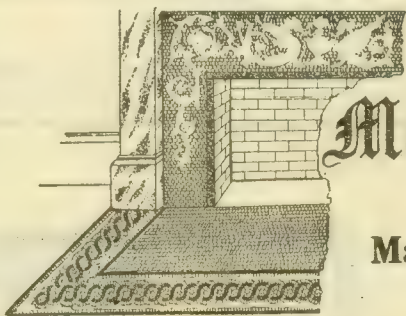
**Residences (7)**, North side Meehan avenue, East of Chew, \$7,000 each. Architect, private plans. Owner, Bart Tourison, 222 East Mt. Pleasant avenue, Philadelphia. Stone and brick, 3 stories, 16x30 feet, hot water heat, electric light, hardwood floors, slag roof. Owner will build.

**Garage**, South side Bridge street, East of Frankford Creek, \$3,000. Architect, private plans. Owner, George A. Sinn, on premises. Brick, 1 story, 67x30 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (23)**, Beaumont street, between Fifty-sixth and Fifty-seventh streets. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Marshall, Maloney & Wallace, 8 South Fifty-second street. Brick, 2 stories, 16x37 feet, slag and slate roof, hardwood floors, hot water heating, electric lighting, tile work, garages in basement, metal lath, cement work. Owners are taking sub-bids.

**Residences (2)**, Tyson and Jackson streets, Tacony, Philadelphia. Architect, private plans. Owner, I. S. Shreve, 3703 Longshore street, Tacony. Brick, 2½ stories, 50x30 feet, oak and pine floors, tile work (heating, plumbing, electric work, slag and asbestos roof reserved). Owner taking bids due March 15th.

**Residences (29)**, Sixty-eighth avenue, be-



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tween Seventeenth and Bouvier streets. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, N. Axle, 6752 Old York road, Philadelphia. Brick, 2 stories, (8) 20x35 feet, (11) 18x29 feet, and 11 16x39 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is ready for sub-bids.

**Residences (36)**, Edna street, between Sixteenth and York road. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Samuel Kennedy, 3501 "F" street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is ready for sub-bids.

**Residence and Garage**, Wynnefield, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 27x53 feet, and 1 story, 20x24 feet, slate roof, hardwood and cement floors, hot water heat, electric lighting, tile work. Plans in progress. Architect will be ready for bids in two weeks.

**Apartment House**, Overbrook, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, name withheld. Brick, 4 stories, 60x45 feet, (2) wings, 37x90 feet, slag roof, hardwood floors, hollow tile, dumb waiters, (4) fire towers, tile work, metal bath, electric lighting, vapor heating. Plans in progress. Architect will be ready for bids in two weeks.

Contract awarded to John Schnabel, Inc., Denekla Building.

**Office and Apartments and Garage**, 1819 North Thirty-second street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, J. Buckman, on premises. Brick, 3 stories, 18x71 feet, and 1 story, 18x26 feet, slag roof, cement, pine and hardwood floors, hot water heating, electric lighting, hollow metal skylights. Contract awarded to A. Budman, 436 North Franklin street, Philadelphia.

**Theatre**, North side Cherry street, from Juniper to Watts, \$230,000. Owners, Shubert Theatre Co., 225 West Forty-fifth street, New York. First-class brick, 1 story, 108x114 feet, slag roof, electric work, steam heating. Contract awarded to Herbert J. Knapp, 116 East Sixteenth street, New York.

**Garage**, 3425 North Broad street, Philadelphia, \$18,000. Architect, private plans. Owner, David Sykes, on premises. Brick, 1 story, 40x15 feet, 53x115 feet, slag roof, cement floors, steam heat, electric light, steel sash. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Building (fire repairs)**, 220 South Broad street, Philadelphia, \$17,000. Architect, private plans. Owners, Art Club of Philadelphia, on premises. General fire repairs. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

**Building (alts. and add.)**, 2100-04 Columbia avenue, \$13,000. Architect, private plans. Owner, Max Gordon, 2100 West Columbia avenue, Philadelphia. Brick, 3 stories, 18x16 feet, slag roof, electric light. Contract awarded to George E. Hawk, 1628 North Twelfth street, Philadelphia.

**Residence**, South side Haines, East of Chew street, \$12,000. Architect, private plans. Owner, Samuel Emlen, Jr., 5604 Germantown avenue, Philadelphia. Hollow tile, 3 stories, 26x33 feet, hardwood floors, electric light. Contract awarded to I. A. Dunkelberger, 71 Herman street, Philadelphia.

**Garage**, 1662 Foulkrod street, Philadelphia, \$3,500. Architect, private plans. Owner, Henry S. Adams, 1660 Foulkrod street, Philadelphia. Brick, 1 story, 54x35 feet, slag roof, cement floors. Contract awarded to H. C. Lightfoot, 1660 Foulkrod street.

**Factory (repairs)**, Northwest Corner Thirtieth and Buttonwood streets, \$2,800. Architect, private plans. Owners, Keystone Spring Works, on premises. General fire repairs. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

## Contracts Awarded

### Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Bank Building**, Forty-ninth and Baltimore avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Belmont Trust Company, care of architect. Brick, cut stone, steel and reinforced concrete, 1 story, 48x73 feet, slag roof, concrete and pine floors, metal lath, tile and marble and terrazzo work, rolled steel sash and skylights, hollow metal doors, iron work. Contract awarded to Potts Brothers & Coopers, 1026 Cherry street, Philadelphia.

**Residence**, Locust avenue and Magnolia street, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Douglass Oliver, care of architect. Stone, 2½ stories, 31x50 feet, shingle roof, oak and pine floors, hot water heating, electric light, tile work, iron work. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

**Weave Shed**, Craftex Mills, Southeast Corner Ruth and Venango streets. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Henry Goldthorp, Orleans and Jasper streets, Philadelphia. Brick and steel, 1 story, 94x88 feet, slag roof, maple and cement floors, rolled steel sash, bond, hollow metal skylights, floor hardener, iron work. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

**Garage**, 1214 to 1220 Filbert street, Philadelphia, \$120,000. Engineers, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, David and Max Markovitz, Morris Polin and Samuel Krekstein, care of engineers. Reinforced concrete and steel, 4 stories and basement, 106x62 feet, slag roof, cement floors (elevators reserved), iron work, fire doors, rolled steel sash and skylights, steam heating, electric lighting. Contract awarded to Long & White, 44 Armat street, Philadelphia.

**Residence**, Chestnut Hill, Philadelphia. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, W. J. R. Taylor, 32 East Springfield avenue, Philadelphia. Contract awarded to George S. Roth, 230 East Graver's Lane.

**Residence**, Allen road, Chestnut Hill, Philadelphia. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, Dr. H. S. Broomall, 7201 Chesheim road. Stone, 2½ stories, 56x56 feet, slate roof, oak and pine floors, hot water heating, electric light, tile work. Contract awarded to John E. Walt, 204 East Willow Grove avenue.

**Store**, \$7,800; **Apartment Houses (8)**, \$8,000 each, Park avenue and Tabor road, Philadelphia. Architects, H. E. Kennedy and G. B. Johnson, 1324 Walnut street. Owner, Louis

H. Cahan, 1324 Walnut street, Philadelphia. Brick, stone, concrete and steel, 4 stories, 50x112 feet, and 2 stories, 60x156 feet, slag roof, tile and marble work, plate glass, oak and pine floors, steam heat, electric light. Contract awarded to Penn Realty & Const. Co., 1324 Walnut street, Philadelphia.

**Building**, 1215 to 1221 Wood street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, William R. Lipkin, 250 South Broad street, Philadelphia. Brick, 2 stories, 84x56 feet, slag roof, maple floors, elevators, iron work, steam heating, electric lighting, metal lath. Contract awarded to Joseph P. Collins, 5632 Walnut street.

**Store and Apartments (add.)**, Fifty-eighth and Chester avenue. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owner, Mr. Cline, care of architects. Brick, 18½x32 feet, slag roof, stair work, hot water heating, electric work. Contract awarded to Frank J. Nardy Co., 3840 Spring Garden street.

**Store Building**, 4719 North Broad street, \$12,500. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Maurice Black, 215 South Broad street, Philadelphia. Brick, limestone, granite and cut stone, 1 story and basement, 70x29 feet, slag roof, pine floors, steam heat, electric light, metal ceilings, dampproofing, iron work, bond.

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**Garage**, Northeast Corner Eighth and Lindley avenue, Philadelphia, \$18,000. Architect, private plans. Owner, J. Davenport, 1427 Sixty-eighth avenue, Philadelphia. Brick, 1 story, 102x146 feet, slag roof, cement floors, steel sash, steam heat, electric light. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

**Residence**, South side Solly street, East of Castor road, \$8,300. Architect, private plans. Owner, Herbert Heinde, 423 Fanshawe street, Philadelphia. Brick, 2 stories, 32x34 feet, 10x18 feet, slag roof, hardwood floors. Contract awarded to W. T. Garrison, 1338 North Sixtieth street, Philadelphia.

**Garage**, 2115 North Sixty-third street, Philadelphia, \$7,500. Architect, private plans. Owner, J. V. Ramsden, on premises. Brick, 1 story, 100x28 feet, cement floors, slag roof, steel sash. Contract awarded to William C. Nester, 2019 North Sixty-third street, Philadelphia.

**Radial Chimney**, North side Glenwood avenue, East of Broad, \$7,000. Owners, National Biscuit Co., on premises. Brick. Contract awarded to M. W. Kellogg Co., 90 West street, New York.

**Building (repairs)**, 1310-18 North Fifth street, Philadelphia, \$35,700. Architect, private plans. Owner, I. Cohen, on premises. General fire repairs, slag roof, pine floors, metal lath. Contract awarded to Robbins Cont. Co., 1137 North Front street.

**Store and Two-Family Residence (alts. and add.)**, 2148-50 North Uber street, Philadelphia, \$22,000. Owner, S. Sternberg, Susquehanna avenue and Uber street, Philadelphia. Brick, 2 and 1 stories, 30x16 feet and 12x16 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

**Storage Building**, 5134-38 Lancaster avenue, Philadelphia, \$21,000. Architect, private plans. Owner, Joseph Melville, 22 North Fifty-second street, Philadelphia. Brick, 2 stories, 50x136 feet, slag roof, steel sash. Contract awarded to Felix Claro, 5439 Webster street, Philadelphia.

**Garage and Shop**, 768 to 774 North Forty-sixth street, Philadelphia, \$10,000. Architect, private plans. Owner, Harry Woolman, 774 North Forty-sixth street, Philadelphia. Brick, 2 stories, 35x44 feet, garage, 1 story, 45x66 feet, slag roof, cement and pine floors, slag roof, electric light. Contract awarded to L. Rosengarten, 5623 Race street, Philadelphia.

**Apartment (alts.)**, 5224 Rising Sun avenue, \$3,600. Architect, private plans. Owner, A. W. Munyon, on premises. General altera-

tions. Contract awarded to William L. Bushnell, 2146 East Norris street.

**Store (alts.)**, 1224 Market street, Philadelphia, \$3,000. Architect, private plans. Owner, John Wanamaker, Philadelphia. General alterations. Contract awarded to Miller & England, 1124 Washington avenue.

**Building (alts.)**, 2946-48 North Eighth street, Philadelphia, \$20,000. Architect, private plans. Owners, P. J. Simmons Estate, on premises. General fire repairs. Contract awarded to Frank K. Stahl, 2711 North Park avenue.

**Bank (add.)**, Franklin street, South of Girard avenue, \$50,000. Owners, National Security Bank, on premises. Brick, 1 story add., 20x88 feet, slag roof, electric work, tile work. Contract awarded to George Kessler Cont. Co., 1733 North Marvins street.

**Residence and Store (alts. and add.)**, 1134 Pine street, \$3,300. Architect, private plans. Owner, Max Schaffer, on premises. Brick, 3 stories add., 16x18 feet, general alterations. Contract awarded to D. Rosenberg, 2510 South Eighth street, Philadelphia.

**Residence and Store (alts.)**, 2006 South Sixteenth street, \$2,000. Architect, private plans. Owner, C. Seltzer, on premises. General alterations. Contract awarded to William Crecilus, 1723 Snyder avenue, Philadelphia.

**Factory**, East side Aramingo street, North of Cumberland street, \$2,000. Architect, private plans. Owners, John T. Lewis & Bros. Co., Lafayette Building, Philadelphia. Iron, 1 story, 12x72 feet, cement floors, electric light. Contract awarded to Turner Const. Co., 1713 Sansom street.

**Apartment (alts.)**, 2012 Green street, Philadelphia, \$2,000. Architect, private plans. Owner, Tony Markolis, 1734 Market street, Philadelphia. General alterations. Contract awarded to Harry Miller, 427 Catharine street, Philadelphia.

**Store and Storage (add.)**, 1719-21 South Seventeenth street, \$3,800. Architect, private plans. Owner, George W. Kirchner, 1517 Chestnut street, Philadelphia. Brick, 4 stories, 40x30 feet, slag roof, electric lighting. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

**Residence (add.)**, 1649 Germantown avenue, Philadelphia, \$2,200. Architect, private plans. Owner, Nicholas Grobuidreger, 1531 North Lawrence street. Brick, 1 story add., 14x6 feet, slag roof, oak floors. Contract awarded to M. Szalay & Co., 637 West Jefferson street.

**Sales Building (add.)**, Lawrence and Sedgley avenue, \$4,000. Architect, private plans. Owner, Richard Crowley, 3533 North Fifth street, Philadelphia. Brick, 2 stories, 30x47 feet, slag roof, cement floors. Contract awarded to Comort Lotz, 439 West Westmoreland avenue.

**Residence (alts. and add.)**, 1416 North Fifteenth street, \$3,000. Architect, private plans. Owner, Dr. H. F. Ewing, 1302 North Broad street, Philadelphia. Brick, 1 story add., 6x35 feet, general alterations. Contract awarded to William R. Dougherty, 1608 Sansom street.

**Storage Building**, 1705 Carpenter street, Philadelphia, \$2,900. Architect, private plans. Owner, John Di Lullo, 752 South Hicks street, Philadelphia. Brick, 1 story, 16x81 feet, slag roof, cement floors. Contract awarded to Charles H. S. Zebley, 340 Quince street.

**Dye House (add.)**, 1347 Frankford avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Eugene P. Bachman, 857 Howell street, Philadelphia. Brick, 1 story, 39x64 feet, 20x30 feet, cement floors. Contract awarded to William A. Clark, 2004 East Orleans street.

**School**, Northwest Corner Twenty-fourth and Wallace streets, Philadelphia, \$2,000. Owner, D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Brick, 1 story, 18x22 feet, slag roof, pine floors. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

**Residence and Store (alts. and add.)**, 3727 Walnut street, \$4,500. Architect, private plans. Owner, Oscar Derian, on premises. Brick, 1 story, 36x12 feet, slag roof, electric light, general alterations. Contract awarded to William Wrixford, 724 Washington avenue, Camden, N. J.

**Residence (add.)**, 2104 Cheltenham avenue, Philadelphia, \$3,780. Architect, private plans. Owner, J. Larkins, on premises. Brick, 1 story add., 20x20 feet, slag roof, electric light. Contract awarded to S. S. Billingsley, 1230 East Cheltenham avenue.

**Garage**, 326 Borbeck street, Philadelphia, \$2,000. Architect, private plans. Owner, James H. Craig, on premises. Stone, 1 story, 22x22 feet, slate roof, cement floor, electric light. Contract awarded to George Krewson, 330 Franklin street, Cheltenham.

**Stable, Office Building and Shop**, Twenty-sixth and Glenwood avenue, Philadelphia, \$59,900. City architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Works, Bureau of Highways, City Hall, Philadelphia. Brick and steel, 1 and 2 stories, 217x58 feet and 104x58 feet and 50x25 feet and 30x38 feet, slag roof, plank, cement and pine floors, rolled steel sash and skylights, iron work. Contract awarded to Bowden Const. Co., 1935 Chestnut street.

**Building**, Amber street and Allegheny avenue, Philadelphia. Architects, William Steele & Sons Co., 219 North Broad street, Philadel-

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# TILES

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phia. Owners, R. E. Tongue & Brothers Co., Inc., on premises. Brick and steel, 2 stories and basement, 60x75 feet, slag roof, cement floors, roof ventilators, steam heating, elec-

tric lighting, rolled steel sash and skylights. Contract awarded to William Steele & Sons Co., 219 North Broad street, Philadelphia. Plans in progress.

## PENNSYLVANIA

# Construction News

**Bank Building**, Holland avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Philip Phillips, Ardmore, Pa. Brick, 1 story, 25x50 feet, slag roof, concrete and wood block floors, structural steel, electric lighting, fire brick oven. Plans in progress.

**Garages (12)**, Ardmore avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, James Farrell, Ardmore, Pa. Penn Building Block, 1 story, 16x25 feet, slag roof, cement floors, hot water heating, electric lighting. Plans in progress. Architect will be ready for bids in ten days.

**Factory**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, John E. Caruso, 43 West Lancaster avenue, Ardmore, Pa. Brick and steel, 2 stories, 50x150 feet, slag roof, cement floors, elevators, hot water heating, electric lighting, rolled steel sash and skylights. Architect will be ready for bids in two weeks.

**Residence and Garage**, 2115 North Sixty-third street, Overbrook. Architect, Charles M. Wells, Rutledge, Pa. Owner, John V. Ramsey, on premises. Brick, 2½ stories, 18x28 feet, slate roof, pine floors, steam heating, electric lighting, concrete work. Plans in progress.

**Bungalow**, Southwest Corner Drexel road and Ardmore avenue, Lansdowne, Pa. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, Christ. Barske, care of architect. Stucco and stone, 1½ stories, 30x46 feet, asbestos shingle roof, hardwood floors, hot water heating, electric lighting, plumbing, tile work. Plans in progress.

**Warehouse (add.)**, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owner, name withheld. Brick, slag roof. Preliminary plans in progress.

**Theatre (alts.)**, Columbia, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, J. J. Hardy, Columbia, Pa. Brick, 1 story, mineral floors, hot air heat, electric light, tile and marble work, hollow metal skylights. Plans in progress.

**Bank (alts. and add.)**, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Conestoga National Bank, care of architect. Brick, 1 story, 24x50 feet, slag roof, linoleum floors, electric light, roof ventilators, rolled steel skylights, bank fixtures, general interior alterations, ornamental iron work. Plans in progress.

**Store and Storage Building**, West King street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Marshall E. Smith & Co., Strawberry and Lafayette streets, Lancaster, Pa. Brick, mill construction, 3 stories, 36x60 feet, slag roof, yellow pine floors, steam heat, electric light, rolled steel sash, fire doors. Plans in progress.

**Colonial Club (add.)**, Harrisburg, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Colonial Club, D. A. Caley, secretary, Kunkel Building, Harrisburg, Pa. Shower rooms, lockers, roof garden. Plans in progress.

**School**, Watstown, Pa., \$50,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Watstown School Board, David L. Bly, president, and

Frank E. Kirk, secretary, Watstown, Pa. Stone and brick and steel. Architect selected.

**Residence (alts. and add.)**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre. Owner, M. Markman, 65 South Welles street, Wilkes-Barre, Pa. Frame, 3 stories, 21x40 feet, asphalt shingle roof, hardwood floors, electric light, tile work, general alterations. Plans in progress.

**School**, Pittston Township, Pa. Architect, Ralph Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Pittston Township School Board, care of architect. Frame, 1 story, 52x35 feet, composition roof, pine floors, electric light. Plans in progress.

**School**, Pittston Township, Pa. Architect, Ralph Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Pittston Township School Board, care of architect. Frame, 2 stories, 172x68 feet, composition roof, pine floors, electric light. Plans in progress.

**Store Front**, East Market street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, J. Kolnick, care of architects. General alterations, tile and oak floors, tile and marble work, copper work, plate glass, metal ceilings. Plans in progress.

**Photo Gallery and Apartment**, Kingston, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame and stucco, 2½ stories, 28x60 feet, wood and slag roof, pine floors, electric light, mason work. Plans in progress.

**Summer Hotel and Stores**, Harvey's Lake, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame and stucco, 3 stories, 32x80 feet, shingle roof, pine floors, plumbing. Plans in progress.

**Dance Pavilion**, near Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, 2 stories, 65x182 feet, pine

floors, plumbing. Plans in progress.

**High School**, Barnesboro, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Barnesboro Township School District, care of architect. Brick, semi-fireproof, 2 stories, 160x86 feet, slag roof, maple floors, warm air heat, electric light, tile work, hollow tile, metal lath, skylights, roof ventilators, iron stairs. Owners ready for bids.

**Bungalow**, Hummelstown, Pa. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, T. Burridge, Hummelstown, Pa. Brick, stone trim, 1½ stories, 24x32 feet, hardwood floors, pipeless heat, electric light. Owner will take bids.

**Residence to Store and Apartment**, 1311 Market street, Harrisburg. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, E. R. Rhein, 1504 Market street, Harrisburg, Pa. Brick, 15x74 feet, 15x35 feet, tin roof, pine floors, electric light, plate glass. Owner ready for bids.

**Residence**, Springfield, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Stone and stucco, 2½ stories, 28x52 feet. Preliminary plans in progress. Too early for details.

**Residence**, Brookline, Pa. Architect, J. L. Stetler, and engineer, M. H. Deysher, 1484 North Fifty-second street. Owner, William Schroeffel, Seventh and Sansom streets, Philadelphia. Frame and stucco, 1½ stories, 28x30 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner is taking bids.

**Office and Apartment (alts. and add.)**, East Orange street, Lancaster. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Clergymen's Beneficial Association, Mr. Helm, East Orange street, Lancaster. Brick, 3 stories, 50x70 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work, roof ventilators, rolled steel skylights. Architect taking bids due March 15th.

**Bungalow**, West Wyomissing, Pa. Architect, Warren S. Heinly, 7 South Fourth street, Reading, Pa. Owner, Miss Mae Heffner, 736 North Thirteenth street, Reading, Pa. Brick, 1½ stories, 32x50 feet, composition roof, hardwood floors, hot water heat, electric light, linoleum work. Plans in progress.

**Residence**, North Wyomissing Heights, Pa. Architect, Warren S. Heinly, 7 South Fourth street, Reading, Pa. Owner, Chester D. Stong, 716 Washington street, Reading, Pa. Cement block, mineral stucco, 2 stories, 24x30

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feet, composition roof, yellow pine floors, hot water heat, electric light. Plans in progress.

**School**, Duncannon, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, Duncannon School Board, J. A. Rife, Duncannon, Pa. Brick, 2 stories, 144x60 feet, slag roof, pine floors (heating, electric light and plumbing reserved), hollow tile, metal lath, safety treads, roof ventilators, skylights, dampproofing, ornamental iron work. Owners taking bids due March 16th at 7 P. M.

**Residences (5)**, Lancaster Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, Ray Clark, 126 East Vine street, Lancaster, Pa. Brick, stucco, 1½ stories, 21x28 feet, slate roof, pine floors, hot air heat, electric light. Owner will build.

**Silk Mill**, Columbia, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Marietta Silk Mills, Marietta, Pa. Brick, steel, 1 story, 160x65 feet, gypsum roof, vapor heat, electric light, wood floors, steel sash and skylights, roof ventilators, dampproofing, fire doors. Ready for bids.

**Residence**, Harrisburg, Pa. Architect, private plans. Owner, M. N. Smith, 1715 North street, Harrisburg, Pa. Brick, 2½ stories, 38x34 feet, slate roof, hardwood floors, tile work, electric light. Owner will build.

**Residence**, College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, Fred Hunsicker, 227 North Fourth street, Allentown, Pa. Hollow tile and stucco, 1 story, 35x45 feet, slate roof, hardwood floors, electric light, tile work. Owner will build.

**Office Building**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Ramberger Cast Stone Co., Allentown, Pa. Brick, hollow tile and steel, 2 stories, 35x45 feet, slate roof, pine floors, electric light. Owners will build.

**Residence**, Wynnewood, Pa. Architect, S. Arthur Love, Globe Building, Philadelphia. Owner, D. Love, care of architect. Frame, 2 stories, 28x97 feet (including garage), shingle roof, oak and pine floors, hot water heating, electric lighting. Architect taking bids due March 17th.

**Garages (16)**, Reading, Pa. Architects and engineers, J. L. Stetler and H. M. Deysher, 1484 North Fifty-second street. Owner, John T. Brossman, 31 North Tenth street, Reading, Pa. Brick, 1 story, 9x18 feet, slag roof, cement floors, hot water heating, electric lighting. Owner ready for general bids.

**Residences (20)**, Glenside, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Maxwell W. Oberholtzer, Glenside, Pa. Frame, 2½ stories, 26x28 feet, shingle roof, pine floors, hot air heating, electric lighting. Owner will build.

**Residence and Garage**, State College, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Hugo Bezdek, State College, Pa. Stone and stucco, 2½ stories, 46x50 feet, slate roof, hardwood and cement floors, vapor heating, electric lighting, metal lath, tile work. Plans in progress. Architect will take bids in one month.

**Residence and Garage**, Cherry Lane, Ardmore, Pa. Architect, John I. Bright, Otis Building, Philadelphia. Owner, architect. Hollow tile and stucco, 32x40 feet. Preliminary plans in progress. Too early for details.

**Bridges (2)**, Delaware County, Pa., Bridge-water Bridge No. 182 and Dutton Mill Bridge No. 179. Engineer, R. J. Adylotte, Media, Pa. Owners, Delaware County Commissioners, Media, Pa. Reinforced concrete, 80-foot span, 120x21 feet, and reinforced concrete, 64-foot span, 130x22 feet. Owners taking bids due March 20th at 11 A. M. Certified check of \$500.

**Cottage**, St. Davids, Pa. Architect, Louis

S. Adams, 1703 Chestnut street, Philadelphia. Owner, George L. Harrison, Jr., 2003 Delancey street, Philadelphia. Stone, 2½ stories, 37x24 feet, slate roof, oak and pine floors, tile work (heating, electric lighting and plumbing reserved). Architect taking bids.

**Bungalow**, Manoa Heights, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, E. H. Applegate, care of architect. Brick and stucco, 1½ stories, 32x48 feet, asphalt shingle roof, oak and pine floors, vapor heating, electric light, tile work, bond. Architect taking bids due March 15th.

**Residence**, Latrobe, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Charles F. Whiteman, Latrobe, Pa. Frame and stucco, 2½ stories, 32x32 feet, shingle roof, electric lighting, hardwood and pine floors. Owner will take bids. Plans completed.

**Bank**, South Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owners, Gasztonyi Bank, care of architect. Architect selected.

**Bakery**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem. Owners, Bethlehem Baking Co., Ralph Sotzing, 535 Avenue C, Bethlehem, Pa. Brick, 2 stories, 30x60 feet, slag roof, maple floors, electric light, baking equipment. Plans in progress.

**Residences (10)**, Coplay, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, care of architect. Brick, 2 stories, 44x18 feet, slate roof, hardwood floors. Plans in progress.

**Apartments (3) (alts.)**, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, J. D. Dalton, 422 Taylor street, Bethlehem, Pa. General interior alterations, tile work, yellow pine and oak floors. Architect ready for bids.

**School**, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, School Board of Kingston, J. Miles, secretary, Kingston. Brick, 2 stories, 85x61 feet, slag roof, hardwood floors, electric light (heating, plumbing and electric work reserved), roof ventilators. Owners ready for bids.

**Store (alts.)**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 1 story, 25x39 feet, slag roof, pine floors, electric light, metal ceilings. Architect will be ready for bids next week.

**School**, Troy, Pa. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, Troy School Board, W. R. Croman, secretary, Troy, Pa. Brick, fireproof, 2 stories, 265x110 feet, slate roof, hardwood and composition floors (heating and electric work reserved), safety treads, roof ventilators, skylights, waterproofing and dampproofing, iron stairs. Lowest bidder, L. F. Swinler, Ebensburg, Pa., \$125,313.66.

**Residence**, President street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, C. Meyers, Hamilton Apartments, Lancaster, Pa. Brick and cinder block, 2½ stories, 28x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

**School**, Green Tree, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School Board of Williamstown Township, Green Tree, Pa. Lowest bids submitted: Frank J. Nardy Co., 3840 Spring Garden street, Philadelphia, \$32,000, \$30,675; W. R. Beard, Coatesville, Pa., \$34,844, \$31,844. All bids rejected. Special meeting will be called.

**Church**, Miners Mills, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Lithuanian Roman Catholic Church, care of architects. Frame, 1 story, 45x75 feet,

slate roof, pine floors, steam heat, electric light. Plans in progress.

**School (add.)**, Hazleton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, St. Joseph's Parochial School, Hazleton, Pa. Brick, 2 stories and basement, 4 rooms, slate roof, yellow pine floors, electric light. Plans in progress.

**Store (alts. and add.)**, Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton. Owners, Cleland-Simpson Co., care of architect. Brick, 5 stories, 50x165 feet, slag roof, heating extension, electric light. Architect ready for bids.

**Residence**, Scranton, Pa., \$25,000. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owner, J. O. Christian, Taylor and Pine streets, Scranton. Frame, 2½ stories, 45x52 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress. Architect will be ready for bids in one week.

**Church**, Olyphant, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. J. Murphy, Olyphant, Pa. Stone, brick and steel, 1½ stories, 60x130 feet, tile roof, hardwood floors, electric light, tile, marble and terrazzo work, ornamental iron work. Architect will be ready for bids April 2nd.

**Residence**, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owner, Fred Calanzaro, 640 Beach street, Scranton, Pa. Stone, 2 stories, 30x32 feet, asphalt roof, pine floors, steam heat, electric light, metal lath. Owner ready for bids in two weeks.

**Residence**, Old Forge, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owner, Martin Memolo, Old Forge, Pa. Frame, 2 stories, 32x32 feet, asphalt shingle roof, pine floors, vapor heat, electric light, tile work. Owner taking bids.

**Store and Residence**, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton. Owner, Peter Bocchino, 521 Breck street, Scranton, Pa. Frame and stucco, 2 stories, 48x50 feet, slag roof, pine floors, steam heat, electric light, tile work, plate glass, metal ceilings. Owner ready for bids.

**School (add. and alts.)**, Olyphant, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Olyphant School Board, P. J. McGinty, president, Olyphant. Brick, steel, 1 and 3 stories, 105x77 feet, 28x77 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), tile work, roof ventilators, waterproofing and dampproofing. Architect taking bids due March 22nd.

**School**, Nanticoke, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Holy Trinity Roman Catholic Church, care of architect. Brick, fireproof, steel, 3 stories, 59x133 feet, slag roof, hardwood floors, hollow tile, tile and marble (heating, plumbing and electric reserved). Owners taking bids due April 1st.

**Resident Hall**, Scranton, Pa., \$200,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Mary Wood College, Scranton, Pa. Brick, fireproof, 3 stories, 110x144 feet, slate roof, hardwood floors, hollow tile, metal lath, elevators, tile, marble and terrazzo work (heating, plumbing and electric work reserved), roof ventilators, waterproofing and dampproofing. Contract awarded on percentage basis to Bowland Brothers, 427 Spruce street, Scranton.

**Ice Cream Plant**, Chambersburg, Pa. Architect, John Crowe, Hartman Building, York, Pa. Engineer, Harry Wolfe, Bywood, Pa. Owner, Stuart Clensing, Chambersburg, Pa. Concrete block, 2 stories, 80x100 feet, concrete floors. Plans in progress. Architect will take bids.

**Residence**, York road, Abington, Pa. Ar-



chitect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mrs. G. Harting, 4147 Germantown avenue, Philadelphia. Stone, 2½ stories, electric lighting, tile work, slate roof, hardwood floors. Plans in progress. Architect will take bids in ten days.

## Pennsylvania Contracts Awarded

**School Building**, Broomall, Delaware County, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, District of Marple Township, Broomall, Pa. Contracts awarded to William R. Beard, Coatesville, Pa., \$48,448. Plumbing, Bell Fleming Co., Ardmore, Pa., \$2,125. Electric, J. F. Roney & Co., 1724 Flora street, Philadelphia, \$600. Heating, Edgar Heating Co., 1802 Chestnut street, \$8,700.

**Bank**, Ephrata, Pa., \$100,000. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata National Bank, care of H. Hebshtman, Ephrata, Pa. Stone, 1 story, 53x90 feet, marble floors, steam heat, electric light, tile and marble work, metal lath, roof ventilators, metal weather strips, rolled steel skylights, bank fixtures. Contract awarded to D. S. Warfel, 39 East Grant street, Lancaster, Pa.

**Store and Apartment (alts. and add.)**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, B. Charles and D. Ellison, Mercer and Locust streets, Lancaster. Brick, steel, 1 and 4 stories, 38x160 feet, built-up roof, hardwood floors, electric light, general alterations (exterior and interior). Contract awarded to Luther Wohlsen, 42 Parkside avenue, Lancaster.

**Moose Temple**, Third and Boas streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Loyal Order of Moose, No. 107, J. A. Searfuss, 220 Boas street, Harrisburg, Pa. Granite, 3 stories, 47x155 feet, composition roof, hardwood and tile floors, concrete work (heating, plumbing, electric work reserved), tile, marble and terrazzo work, plate glass, roof ventilators, terra cotta, ornamental iron work. Contract awarded to S. W. Shoemaker & Son, Eighteenth and State streets, Harrisburg, Pa.

**Residence**, Seventeenth and Forster streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, J. W. Appleby, 216 South Second street, Harrisburg, Pa. Stone, stucco, 2½ stories, 60x29 feet, slate roof, composition and oak floors, electric light, tile work. Contract awarded to Delson & Stephenson, Penbrook, Pa.

**Sales and Service Building**, Bryn Mawr, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Neel Cadillac Co., 152 North Broad street, Philadelphia. Brick, concrete, cut stone and steel, 1 story, 127x85 feet, slag roof, cement floors, metal lath, hollow metal sash, bond, waterproofing, floor hardener, iron work. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Foundry**, Primos, Delaware County, Pa., \$190,000. Architect, Francis Brawn, Portland, Me. Owners, Pennsylvania Lawn Mower Works, 1615 North Twenty-third street, Philadelphia. Concrete, brick and steel, 1 story, 220x110 feet, slag roof, concrete and wood block floors, hollow tile, electric light, rolled steel sash and skylights, fire doors, damp-proofing. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Bank (alts. and add.)**, Penbrook, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, Penbrook Trust Co., care of Mr. Good, on

premises. Brick, 2 stories, 20x30 feet, slate roof. Contract awarded to Charles Lighter, Harrisburg, Pa.

**Stores (4), Apartments (12) (alts. and add.)**, South Second street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Freedburg Brothers, South Second street, Harrisburg, Pa. Brick, 5 stories, 40x110 feet. Contract awarded to H. Levin, 220 Peffer street, Harrisburg.

**Hotel (alts. and add.)**, Market street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, Senate Hotel, Dr. Goldman, Second and Market streets, Harrisburg, Pa. Stone, 5 stories add., 25 rooms, general alterations. Contract awarded to M. H. Gettys, 210 Mulberry street, Harrisburg, Pa.

**Bridge (2)**, Delaware County. Engineer, R. J. Adylotte, Media, Pa. Owners, County Commissioners of Delaware County, Media, Pa. Reinforced concrete. Bridge No. 170 awarded to D. B. Hoover, Pottstown, Pa., \$8,465. Bridge No. 17 awarded to Hill Const. Co., Mt. Holly, N. J., \$7,300.

**Store**, Lansford, Pa. Architect, F. A. Muhlberg, Liberty Bank Building, Reading, Pa. Owners, J. C. Bright Co., Lansford, Pa. Brick, limestone, 2 stories, 70x170 feet, slag roof, hardwood floors, steam heat, electric light, store fixtures. Contract awarded to Butz & Clader Co., Allentown, Pa.

**Residence**, Manoa Heights, Pa., \$7,000. Architect, Charles W. Schweiker, 33 North Felton street, Philadelphia. Owner, August Otto, 2623 Jefferson street, Philadelphia. Frame and stucco, 2½ stories, 28x26 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to Frank W. Willis, Highland Park, Pa. Work about to start.

**Residence**, Ardmore, Pa. Architect and owner, Thomas W. Sears, 1424 Walnut street, Philadelphia. Stone, 2½ stories, 102x31 feet and 27x30 feet, slate and canvas roof, oak, pine and cement floors, electric lighting, metal lath, tile work, iron work. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

**Residence**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, Raby Minter, care of architects. Brick and stucco, 2 stories, 30x25 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to Earl S. Kester & Co., Twenty-seventh and Greenleaf streets, Allentown, Pa.

**Residence**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, John Koke, care of architects. Brick and stucco, 2 stories, 22x30 feet, slate roof, hardwood floors, electric lighting, tile work. Contract awarded to Earl S. Kester & Co., Twenty-seventh and Greenleaf streets, Allentown, Pa.

**Silk Mill (add.)**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Phoenix Silk Mill, Race and Court streets, Allentown. Brick, 3 stories, 10x30 feet, slag roof, electric lighting. Contract awarded to Ochs Const. Co., 440 Wire street, Allentown, Pa.

**Bank**, Duryea, Pa. Architect, H. G. Cook, Jr., Miners' Bank Building, Wilkes-Barre, Pa. Owners, People's Savings & Trust Co., Duryea, Pa. Brick, hollow tile and limestone, 1½ stories, 28x70 feet, Johns Manville roof, tile and wood floors, hollow tile, vapor heating. Contract awarded to J. J. Gibbons, Avoca, Pa.

**Store Fronts (alts.)**, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Jurkowitz Brothers, 226 Penn avenue, Scranton, Pa. Brick, plate glass, copper work, hardwood floors, tile and marble. Contract awarded to J. C. Davis, Scranton, Pa.

**Stores, Residence and Garage**, South Main street, Wilkes-Barre, Pa. Architects, Rehroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, E. L. Klipples, 71 South Main street, Wilkes-Barre, Pa. Plate glass, copper work, maple floors, electric light, tile and marble work, elevators, roof ventilators, rolled steel skylights. Contract awarded to A. D. Thomas, 370 South Main street, Wilkes-Barre, Pa.

## New Jersey Construction News

**Residence**, Trenton, N. J. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owner, A. Caryl Bigelow, 833 West State street, Trenton, N. J. Brick, 2½ stories, 30x80 feet, tile roof, hardwood floors, vapor heat, electric light, tile and marble work. Owner will take bids.

**Schools (3) (add.)**, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Hamilton Township School Board, William A. Robinson, District Clerk, Greenwood School, Trenton, N. J. Brick, 1 story. Too early for details.

**Residence**, Trenton, N. J. Architect, P. L. Fowler, Fitzcharles Building, Trenton, N. J. Owner, William Hart, care of architect. Frame, 2 stories, 36x50 feet, cement tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence**, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, George Blair, 311 Ardmore street, Trenton, N. J. Hollow tile and stucco, 2½ stories, 36x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence**, Edgewood avenue, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Misses Stephens, care of architect. Frame, 2½ stories, 36x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Segregation Cottage**, Jamesburg, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Home for Boys, care of C. Derrick, Jamesburg, N. J. Brick, reinforced concrete, 1 story, 60x92 feet, slate and slag roof, concrete floors, electric light, tile and marble work, rolled steel sash, waterproofing and dampproofing. Plans in progress.

**Dining Hall**, Morris Plains, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Hospital, Board of Managers, Morris Plains, N. J. Structural steel, brick and hollow tile, 5 stories, 30x60 feet, slate roof, composition floors, hollow tile, freight elevators, fan system heating, electric lighting, metal lath, rolled steel sash and skylights, fire doors, waterproofing and dampproofing, iron stairs, ornamental iron work. Architects ready for bids due April 2nd.

**School Building**, Oaklyn, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, School Board, Oaklyn, N. J. Brick, cut stone and concrete, 1 story, 58x26 feet, slate roof, cement and pine floors, metal lath, marble work, waterproofing, bond, iron work. Architect taking bids due March 21st.

**Stable**, Delanco, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Clarence Taubel, Delanco, N. J. Frame, 2 stories, 30x80 feet, shingle roof, cement and wood block floors, stall partitions, electric lighting. Architect taking bids due March 20th.



**Lodge Building**, Pennsgrove, N. J., \$15,000. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Pennsgrove Lodge, B. P. O. E., R. L. Goldman, care of General Wrecking & Sales Co., Pennsgrove, N. J. Brick, 2 stories, 40x70 feet, slag roof. Owners taking bids from local contractors.

**Store House (add.)**, Morris Plains, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Hospital, care of Dr. M. A. Curry, Morris Plains. Brick, 1 story add., 83x48 feet, tin roof, maple floors, electric light. Owners ready for bids due March 19th.

**Twin Residence**, Riverside, N. J. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, L. Liegti, 1209 Federal street, Philadelphia. Frame, 2½ stories, 14x54 feet, shingle roof, pine floors, pipeless heat, electric light, plumbing, cement and concrete work, plastering. Owner will build.

**Residence**, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Mr. Robert Shawsaw, Morris Heights, N. J. Hollow tile and stucco, 2½ stories, 30x42 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Owner will build.

**High School**, Ocean City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ocean City School Board, Ocean City, N. J. Brick, steel, fire-proof, 3 stories, 194x191 feet, slag roof, hardwood floors, metal lath, hollow tile, tile and marble work, roof ventilators, waterproofing, dampproofing, terra cotta, ornamental iron work (heating, electric work and plumbing reserved). Lowest bidder: J. S. Rogers Co., Drexel Building, Philadelphia.

## Miscellaneous Construction News

**Residence and Store**, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Edward P. Vogel, Sixth and Anchorage streets, Wilmington. Brick, 2 stories and basement, 30x35 feet, electric light, store fixtures, pine floors. Plans in progress.

**Store Building**, Louisville, Ky. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Ralph Gifford, Louisville, Ky. Brick, 2 stories, slag roof, pine floors, electric lighting. Owner is taking bids from local bidders.

## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 9, 1923. Sealed Proposals will be opened in this office at 3 P. M., March 30, 1923, for restoration of stone-work, new roof, gutters and down-spouts, waterproofing, etc., for the United States Post Office and Custom House, at Oswego, N. Y. Drawings and specifications may be obtained from the Custodian at Oswego, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 164)

construction than there are in medicine, in law, or in banking.

### Retains Idealism in Contracting

And be sure to tell him of the possibilities for service in this field. While he would deny it indignantly, every boy is more or less of an idealist. He enters the doctor's office, not to make money

alone, but for the good he can do to suffering humanity. He studies law with the same ideal in view. That he drops his idealism soon after hanging out his shingle is the greatest indictment of the legal profession.

He need not drop it if he enters the contract field. Who but the builder has brought the East and West together? Who has taken the deserts of the western plains and made them habitable for thousands of settlers? Who has built the cities, and the routes of transportation into them? Who but the builder! Show the youngster this one thing, thoroughly convince him of its truth, and the shortage of skilled mechanics will become a thing of the past.

## PAINTING AND BRONZING RADIATORS

BY A. ASHMAN KELLY

Old radiators should be made clean before giving them a coat of paint or bronze liquid, washing off grease with benzine. After cleaning and dusting off apply any desired coating, even white. Aluminum bronze stirred into a good bronzing liquid until of the consistency of thin paint, may be easily applied with a soft hair brush. One or two coats, as required.

You can make a very good bronzing liquid by taking equal parts of gold size japan and light colored baking varnish and mixing together. To each ounce of this liquid add three ounces of turpentine. Shake in a bottle for use. Bronze powder gives a higher luster by being sifted on a tacky varnish surface.

Apply a coat of baking varnish to the radiator and when it has dried to a "tack," or to that condition that when a finger is touched against it there is a feeling of slight adhesiveness.

Apply the dry bronze powder or aluminum with a dry camel hair brush or a bunch of raw cotton. The brush is best, because it enables you to get easily into small recesses, etc. Place a paper under the radiator to catch the bronze powder as it falls.

For ordinary radiator work a liquid made from good copal varnish thinned down with turpentine, will be found satisfactory; let it dry to a tack, then dust on the bronze. Or if you choose to mix bronze and liquid together, let it be in the proportion of equal parts.

To bronze steam pipes and radiators, using dry gold bronze, paint the pipes and radiators with medium chrome yellow, in oil, thinned with a little turpentine and varnish, and when dry enough rub on the powder. When it is hard-dry apply a coat of thinned copal varnish.

Radiators are sometimes painted white, a rather difficult color, one may say. The heat yellows ordinary white paint, so that a special paint must be used. The first

coats are made with zinc white, thinning with turpentine. The coats are to be made smooth with sandpaper. Or at least as smooth as possible. On this foundation place two coats of the lightest gum copal varnish. Lithopone it is said does well as the base.

Here is a factory formula, which gives a radiator paint that dries without luster and is discolored very little by the heat. White zinc oxide, barytes and powdered soapstone are ground together in japan gold size, turpentine and carbon tetrachloride, in equal parts. Or it can be ground in a celluloid liquid, and there will be no discoloration at all. But the better way is to find a dealer who sells radiator white.

Oil paints will not do, as the oil is more than likely to blister while the color will turn brown and peel off. The best we can do with oil paint is to use zinc white thinned with turpentine to make it dry dead. On top of this the varnish may be applied. But the varnish may soften under the heat, especially the low grade varnishes, which contain rosin. If a baking varnish is used, the purpose being to place the work in an oven, then the varnish coating may be applied much heavier than otherwise it should.

A black radiator varnish is made from the best Syrian asphaltum, or Gilsonite will do as well, heating ten parts over the fire, with two parts of raw linseed oil, until sufficiently fluid. When it is cool thin it down to the consistency of varnish with turpentine.

To do the logs of gas radiators in imitation of wood, they are usually coated with copper bronze or green bronze, and then blended in with colors that will stimulate the natural colors of the barks of certain trees. To make the log look like birch or maple, for instance, or as those bargs sometimes appear, asbestos fiber is attached in various parts of the logs.

The pigments used for this work have to be fire-resistant; these are raw and burnt lumber, Indian red, mineral brown, oxide of chromium green, or copper green. The medium used in mixing the paint is silicate of soda, for there is neither oil nor gum that will stand the degrees of heat generated by these gas-lit metal logs.—*Building Age*.

Richardson & Boynton Company, manufacturers of heating and cooking apparatus, M. F. Gilbert, manager, have moved from 1332 Arch Street to larger quarters at 1308 Arch Street, Philadelphia.

Richardson & Boynton Company have been manufacturers of heating and cooking apparatus since 1837, making a complete line of steam, hot water and vapor boilers, warm air and pipeless heaters, gas combination and coal ranges, hotel ranges and tank and laundry heaters.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T. ....Narberth, Pa.  
Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy .....Merion Station, Pa.  
Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co. ....133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Contract Waterproofing Co. ....Harrison Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## EXCAVATING.

Croyle, Guy .....Merion Station, Pa.  
McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank. ....Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Fitzgerald, J. J., & Co. ....2nd and Butler Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank. ....Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard .....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank. ....Ornamental Iron Works,  
1505 N. Mascher St., Phila.

Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## ROAD WORK.

Croyle, Guy .....Merion Station, Pa.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.  
Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.  
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
Nicetown Lane and Powder Mill Road, Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEET METAL WORK.

Tinney, Walter H., Co., 63rd and Woodland Ave

## SHEETROCK (Wall Board)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., & Co. ....10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## SLATE

Emack, The John D. Co. ....Otis Bldg., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAIRS (Sheet Steel).

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STEAM SHOVEL CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## STEEL SASH.

McFarland-Meade Co., 70th and Kingsessing Ave.

## STONE.

John D'Lauro. ....55 E. Mermaid Lane, Phila.

## STRUCTURAL STEEL.

Adelhelm & Phillips. ....1511 Sansom St., Phila.

## STUCCO.

Daniel C. Sinclair. ....East Lansdowne, Pa

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....269 S. 11th St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## VENTILATORS

Iona Ventilator Co., Inc. ....2821 W. Dauphin St., Phila.

## VENTILATING SYSTEMS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## WALL BOARD, COMPO BOARD

Ketcham, Howard .....3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## WATER PAINT.

Bayless, W. L., & Son. ....Sharon Hill, Pa.  
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 12

March 21, 1923

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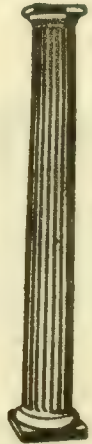


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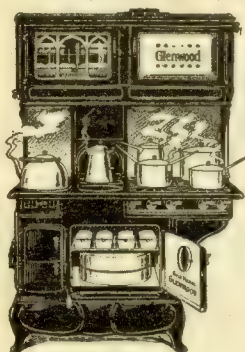
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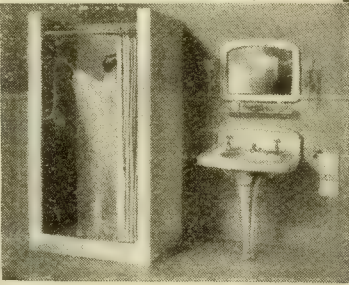
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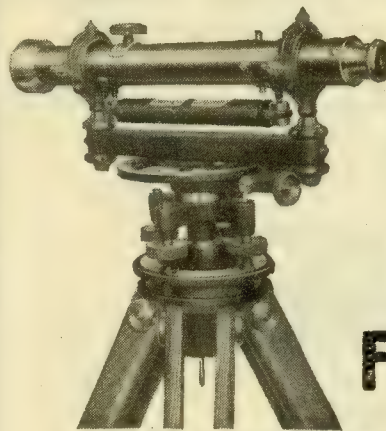
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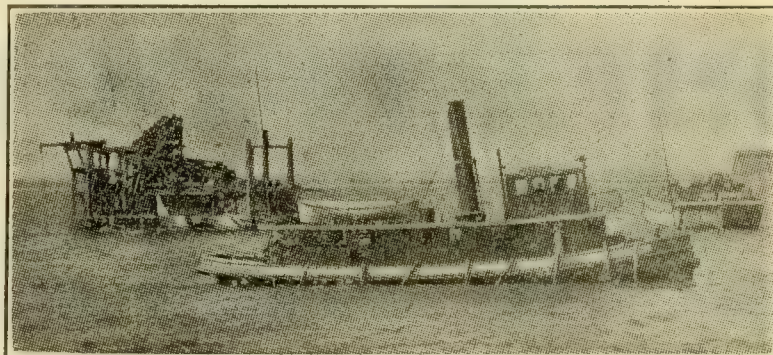
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 12

PHILADELPHIA  
March 21, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 324-325-326)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



ONE of the most interesting and pertinent questions which have arisen in the building industry lately has been that concerning apprentices. We have on several occasions printed accounts of experiments in the training of apprentices in various parts of the country. One of the most constant and persistent problems connected with apprenticeship schooling has been the difficulty, attested to from all quarters, of inducing boys to enter the trades. A very interesting account of the success which has attended Cleveland's Bricklayer's Apprentice School is given by Otto Best, Jr., Director of Apprentices in the *American Clay Magazine*.

The Cleveland Bricklayers' Apprentice School, writes Mr. Best, organized Aug. 4, 1922, is conducted under the auspices of the Local Bricklayers' Union No. 5 and the Mason Contractors' Association, a trade association of the Building Trades Employers' Association, in conjunction with the Cleveland Board of Education.

Representatives of these bodies comprise the Apprentice Committee which meets weekly, determining the general policy of the school and handling all matters pertaining to the apprentice system. Complaints from the apprentice and contractors are heard by the Committee, and the contractor as well as the apprentice is subject to its judgments.

The financial requirements of the school are met by provisions of the Smith-

Hughes Law for Vocational Education, whereby the Federal Government appropriates approximately one-fourth, the State Board of Education one-fourth, and the Local Board of Education one-half the teacher's salary. The quarters for the school, the drawing instruments and supplies incidental thereto are furnished by the Local Board. The Cleveland Builders' Supply & Brick Company places gratuitously at the disposal of the school, bricks, sand, and all materials needed for the practical education which the boys are receiving.

There are at present 175 apprentices enrolled, all attending school four hours per week, who are receiving instructions from a teacher having thorough experience as a journeyman, and college training of a technical nature. Sessions of the school are held five days per week in the forenoon; each class is arranged in relation to the time of apprenticeship served. Half the time is spent in plan reading and drawing and the remainder in the practical room. The apprentices must be working at the trade in order to attend the school, and are paid by the contractors for the time spent in school at their established rate.

An apprentice applicant must thoroughly convince the apprentice committee as to his fitness to enter the trade and attend the school. His ability to read and write English is ascertained before his application is given considera-

tion; if his application is approved he is placed on trial with a bonafide mason contractor, that is one who has been in business and has employed an average of five bricklayers per day for two successive years and is reasonably certain of providing an apprentice with continual work. At the end of thirty days of trial he must reappear before the Committee and receive its approval prior to entering into an indenture contract with the contractor.

This contract covers the term of apprenticeship—four years—and binds the apprentice to work for the contractor whenever he has work for him, and obligates the contractor to keep the apprentice employed whenever possible and also to compensate him for school attendance. A mason contractor, of the standing heretofore mentioned, is permitted to indenture a second apprentice after the first has served three years of his apprenticeship, provided he employs an average of ten bricklayers throughout the year. If at any time he employs over ten journeymen he is entitled to use a borrowed apprentice, namely, one who is indentured to another contractor but temporarily unemployed, and by a system of transfer the apprentices are kept employed uninterruptedly.

It has often been said that labor unions are not in sympathy with the training of apprentices and place obstacles in the way of progress of this movement, but the

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experience in Cleveland does not in any respect bear out these statements. The Bricklayers' Union has co-operated in every possible manner and without its participation the venture would have been unsuccessful.

The Director of Apprentices acts in the field for the Apprentice Committee in all cases. If possible he settles cases of difference between the contractor and the apprentice in order to lighten the work of the Committee, and the results are reported to the Apprentice Committee. A daily check is made of the attendance at school, and the cause of their absence is investigated. A record is kept of location of all jobs on which the apprentices are working and all other necessary data.

Contrary to the opinion that good American boys are unwilling to enter trades of this nature the Apprentice Committee has enrolled in the school high school graduates and many other boys of American birth.

To accomplish this it was necessary to increase the attractiveness of the trade. The rate of wages was made sufficient to cope with the wages paid boys of apprenticeship age in factories, shops and offices. A basketball team has recently been formed and under the guidance of an experienced coach is providing recreation. Smokers, dances and other social events tend to sustain their interest.

Rules and regulations governing the apprentices are printed herewith. These rules were formulated by the Committee.

Approved by the Apprentice Committee, January 19th, 1923.

#### *Rules Governing Bricklayer Apprentices*

1. No boy will be given a permit to work as a bricklayer apprentice until his application has been approved by the Apprentice Committee. The mason contractor placing the boy on trial must appear with him before the Apprentice Committee. The Committee reserves the right to require a birth certificate from Applicant. Application blanks may be secured from Bricklayers' Local Union No. 5, 2105 E. 21st Street, or at the office of the Building Trades Employers' Association, Rose Building, Cleveland, Ohio.

2. Every apprentice boy must attend the Bricklayers' School at least four hours per week, or present a written excuse from his employer or physician.

3. Apprentices must return to the contractor to whom they are indentured when they have work and when notified to do so.

4. It is necessary for apprentices to secure a permit from Bricklayers' Local Union No. 5 headquarters to work for a contractor other than the one to whom they are indentured.

5. A report must be made at the school

whenever a change in home address or job location is made.

6. A summons to appear before the Apprentice Committee is compulsory.

7. No transfer or release of an indentured apprentice will be made unless both contractors, parties to the change, the apprentice and the parent or guardian appear jointly before the Apprentice Committee, and after proper hearing, receives the sanction and approval of this body.

8. Contractors are to pay all boys working for them, whether indentured to them or not, for the hours per week spent at school, and the apprentice must return to the job as soon as possible after school in order to receive pay for attendance.

9. The rate to be paid the boys for time spent at school is determined by the official rate per hour for that boy as agreed upon by the Bricklayers' Local Union No. 5, and Mason Contractors, which are as follows:

First six months.....	32 percent
Second six months.....	36 percent
Third six months.....	42 percent
Fourth six months.....	48 percent
Fifth six months.....	52 percent
Sixth six months.....	62 percent
Seventh six months.....	70 percent
Eighth six months.....	80 percent

These rates are based on journeymen bricklayers' rate per hour; any change in said rate will make a proportionate change in these rates, bonuses and yearly increases.

10. Every apprentice boy, at the expiration of his thirty days' trial period must appear before the Apprentice Committee for its approval before he will be allowed to enter into an indenture contract.

11. An apprentice applicant must satisfy the Apprentice Committee as to his ability to read and write the English language intelligently and speak it properly before his application will be considered and must be able to pass any other mental tests required by the Committee.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

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CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Building**, Southwest Corner Ninth and Sansom streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets. Brick, steel and concrete. Plans in progress.

**Office Building**, Chestnut street, Sixth to Seventh streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Cyrus H. K. Curtis, Independence Square, Philadelphia. Brick, steel, concrete, stone, granite, limestone, terra cotta, 11 stories, electric lighting, steam heating, tile and marble work, elevators. Preliminary plans in progress.

**Residence**, location withheld. Architect, Edward A. Roth, Drexel Building. Owner, Louis Rintz, care of architect. Hollow tile and stucco, 2½ stories, 32x33 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans completed.

**Store and Apartments**, location withheld. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Jacob Gorchov, 4116 Girard avenue, Philadelphia. Brick, 4 stories, 115x63 feet, slag roof, hardwood floors, artificial stone, vapor heating, electric lighting, plumbing, tile work, fire tower, Spanish tile roof, will contain 12 apartments. Plans in progress.

**Apartment House**, Germantown, Philadelphia. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 4 stories. Preliminary plans in progress.

**Residence**, Graver's lane and Stenton avenue, Chestnut Hill. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Murray Earle, care of architect. Stone, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Residences (2) (alts. and add.)**, 1925-27 Panama street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Charles T. Cresswell, 2122 Locust street. Brick, steel and stucco, 3 stories and basement, 30x32 feet, slag roof, oak and pine floors, electric lighting, metal lath, bond, iron work (heating reserved). Revised plans in progress.

**Store and Office Building**, Northwest Corner Twenty-first and Walnut streets. Archi-

tect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Fried & Fishman, 605 South Tenth street, Philadelphia. Brick, steel, concrete, stone and terra cotta. Preliminary plans in progress.

**Store (alts.)**, 124 South Thirteenth street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 1 story and basement, 24x100 feet, rubbertile floors, steam heat, electric work, plumbing, tile and marble work, plate glass, ornamental plastering, structural steel. Plans completed. Will be ready for bids in a few days.

**Manufacturing Building and Power Plant**, Fifth and Bristol streets. Architects, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners, Brandle & Smith, Eighth and Dauphin streets, Philadelphia. Working plans in progress. Too early for details.

**Residences (alts.)**, Chestnut Hill, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, John T. Kommer, 6335 Stenton avenue, Philadelphia. Plans in progress. Too early for details.

**Warehouse and Garage**, F and Atlantic streets, Philadelphia, \$105,000. Engineer, M. Ward Easby, 1814 Chestnut street, Philadelphia. Owners, Pennsylvania Door & Sash Co., Twenty-fifth and Callowhill streets. Brick, 1 and 2 stories, 315x193½ feet and 41x81 feet, garage, 1 story, 81x40 feet, slag roof, pine and cement floors, steel sash, steam heat, electric lighting, skylights, ventilators. Engineers will build.

**Garages (5)**, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 1 story, 9x18 feet, slag roof, cement floors, electric lighting. Architect is taking sub-bids.

**Office Building**, 1611 Walnut street, Philadelphia. Architect, Charles E. Oelschlager, 1615 Locust street, Philadelphia. Owner, H. C. Hollinger, The Longacre, Philadelphia. Brick, concrete, steel and limestone, 4 stories, 117x22 feet, slag roof, cement floors, steam heating, electric light, metal lath, tile work. Owner is taking sub-bids.

**Stores and Apartments (6)**, Mt. Pleasant and Germantown avenues. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia.

Owner, Joseph S. Silver, 5160 North Camac street, Philadelphia. Electric work, general alterations, hardwood floors, tile work, metal bulks, metal ceilings, steel work. Owner is ready for sub-bids.

**Residences (10)**, Rittenhouse between Chew and Boyer streets, \$18,000 each. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace, Philadelphia. Brick and stone, 2½ stories, 30x31 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will take sub-bids in three weeks.

**Residences (52)**, Stafford street, between Boyer and Sprague streets, \$7,200 each. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace, Philadelphia. Brick, 2 stories, 24x24½ feet, garage in basement, tile and slag roof, hardwood floors, hot water heating, electric lighting, tile work, metal lath, cement work. Owner is taking sub-bids.

**Residence**, Phil Ellena and Greene streets, Philadelphia. Architects, Magaziner, Eberhard and Harris, 603 Chestnut street. Owner, A. L. Fellman, 2356 North Front street, Philadelphia. Brick, 2½ stories, 43x35 feet, slate roof, oak and pine floors, metal lath, tile work, iron work (heating and electric work reserved). Architects taking bids due March 23rd.

**Bungalow**, Phil Ellena, West of Greene street, Germantown. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, William S. Weil, 4747 North Gratz street, Philadelphia. Brick, 1½ stories, 67x42 feet, slate roof, oak and pine floors, metal lath, tile work, iron work (heating and lighting reserved). Architects taking bids due March 23rd.

**Residence**, Gate street, Roxboro, Pa. Architect, private plans. Owner, C. W. Hornby, 6134 Ridge avenue, Philadelphia. Stone, 2½ stories, 47x22 feet, asbestos shingle roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Owner taking bids due March 24th.

**Residence (alts. and add.)**, 6300 Overbrook avenue. Architects, Thomas, Martin & Kirkpatrick, Otis Building. Owner, Dr. William Hewson, on premises. Brick and stucco, 1 story, 30x12 feet, asbestos shingle roof, oak and pine floors, hot water heat, electric light-

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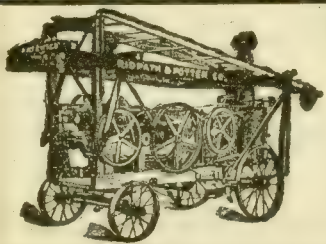
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ing. Architect taking bids due March 24th, 9 A. M.

**Factory**, 439-45 Berks street, Philadelphia. Architect, Albert E. Dunlap, 7203 Oak avenue, Oak Lane, Philadelphia. Owners, A. B. C. Porch Enclosure Co., Jules Bernheim, on premises. Brick and steel, 3 stories, 60x100 feet, slag roof, pine floors, steam heating (electric lighting reserved), rolled steel sash, fire doors, iron work. Owner is taking bids due March 24, at noon.

**Vault (add.)**, Seventeenth and Spring Garden streets, Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, Treasury Department, U. S. Government, Washington, D. C. Structural steel extension to vault. Owners taking bids due March 27th at 3 P. M.

**Residences (alts.)**, 253 to 261 South Van Pelt street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Marian D. Grant, care of architect. Brick work, cut stone, plastering, carpentry, mill work, painting, electric lighting, bond, iron work (heat reserved). Architect taking revised bids due as soon as possible.

**Residences (2)**, 5114-16 Fairhill street, Philadelphia, \$4,500 each. Architect, private plans. Owner, John J. Gaffney, 5532 North Third street, Philadelphia. Brick, 2 stories, 15½x38 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Residences (8)**, East side Thirteenth street, North of Grange, \$8,000 each. Architect, private plans. Owner, Jaffrey Hadley, Thirteenth and Grange avenue, Philadelphia. Brick, 2 stories, 20x34 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (10)**, Germantown avenue, South of McPherson street, \$8,000 each. Architect, private plans. Owner, Robert Kilough, Wayne avenue and Duval streets. Brick, 2 stories, 18x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Store and Storage**, 4421 Lancaster avenue, Philadelphia, \$8,000. Architect, private plans. Owner, William Powers, Forty-fourth and Lancaster avenue, Philadelphia. Brick, 3 stories, 18x84 feet, slag roof, electric work. Owner will build.

**Residences and Garages (10)**, Bouvier, South of Haines street, \$62,600. Architect, private plans. Owner, Peter Miller, 6735 North Carlisle street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

**Residences (27)**, 6600-52 North Twentieth street, Philadelphia, \$164,000. Architect, private plans. Owner, William H. Leibrich, 2804 Ridge avenue, Philadelphia. Brick, 2 stories, (2) 20x32 feet, (25) 18x32 feet, slag roof,

hardwood and pine floors, electric light. Owner will build.

**Residences (14)**, Fifty-fifth and Ridgwood and Fifty-fifth and Florence, \$97,000. Architect, private plans. Owners, Famous & Dougherty, 5213 Chestnut street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, electric light, hot water heat. Owners will build.

**Residences (19)**, South side Pentridge, West of Fifty-fourth street, \$80,000. Architect, private plans. Owner, John M. Gallagher, Fifty-fifth and Springfield avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 9x9 feet, slag roof, hardwood and pine floors, electric work. Owner will build.

**Residence**, 6612 Wayne avenue, Philadelphia, \$20,000. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, William B. Davenport, 1315 Colwyn street, Philadelphia. Stone, 3 stories, 29x42 feet, 13x10 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residence and Garage**, West side McCallum street, South of Mt. Airy, \$21,000. Architect, private plans. Owner, Walter K. De Victor, Real Estate Trust Building, Philadelphia. Stone, 3 stories, 50x23 feet, 19x27 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, garage, 1 story, 17x23 feet, cement floors. Owner will build.

**Residences (3)**, **Store**, Southeast Corner Ninth street and Sixty-sixth avenue, \$50,000. Architect, private plans. Owner, Fred G. Storck, 3519 North Thirteenth street, Philadelphia. Brick, 2 stories, store and residence, 16x52 feet, (3) residences, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Garage**, 6729 Yocum street, Philadelphia, \$2,500. Architect, private plans. Owners, France & Missar, 6725 Yocum street, Philadelphia. Brick, 1 story, 98x16 feet, slag roof, cement floors. Owners will build.

**Garages (2)**, Sixty-eighth and Upsal streets and Sixty-eighth and Greenway avenue, \$7,500. Architect, private plans. Owners, Berman & Guberman, 321 North Sixtieth street, Philadelphia. Brick, 1 story, 52x32 feet and 52x17 feet, slag roof, cement floors. Owners will build.

**Residences (8)**, 3216-30 Unruh street, Philadelphia, \$4,000 each. Architect, private plans. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, -6x37 feet, slag roof, oak and pine floors, electric light. Owner will build.

**Residences (30)**, Saul, Pratt and Bridge streets, \$163,000. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, (2)

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16x39 feet, and (30) 15x29 feet, 12x9 feet, hot water heat, electric light. Owners will build.

**Residences and Garages (11)**, Fifty-fourth and Overbrook avenue, \$178,800. Architect, private plans. Owners, Herman, Bobb & Silverstein, 522 South Sixtieth street. Stone and brick, 3 stories, (10) 18x37 feet, 16x23 feet and (1) 28x40 feet, 17x22 feet, hardwood floors, hot water heating, electric lighting. Owner will build.

**Apartment House**, 5015-23 Spruce street, Philadelphia, \$160,000. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Arrow Construction Co., 1627 Sansom street, Philadelphia. Brick and stone, 4 stories, 120x89½ feet, slag roof, hardwood, cement and pine floors, vapor heat, electric light, tile work. Owners will build.

**Residences (4)**, South side Lyons avenue, West of Seventy-eighth street, \$3,000. Architect, private plans. Owner, George S. Roe, 6949 Saybrook avenue, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, hot water heat, electric light. Owner will build.

**Residence and Store**, 5207 North Fifth street, Philadelphia, \$7,600. Architect, private plans. Owner, John Thompson, 247 Wellington street, Philadelphia. Brick, 2 stories, 16x58 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Garage**, 1601-03 Ruffner street, Philadelphia, \$5,000. Architect, private plans. Owner, J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia. Brick, 1 story, 17x120 feet, 20x50 feet, slag roof, cement floors. Owner will build.

**Service Station**, Southwest Corner Thirty-seventh and Powelton avenue, \$3,100. Architect, private plans. Owners, Sun Oil Co., Finance Building, Philadelphia. Iron, 1 story, 14x15 feet, cement floors. Owner will build.

**Storage**, 637 Hoffman street, Philadelphia, \$2,950. Architect, private plans. Owner, Isaac Schwartz, Northwest Corner Fourth and Morris streets, Philadelphia. Brick, 2 stories, 14x45 feet, slag roof, cement floors. Owner will build.

**Residence and Store (alts. and add.)**, 3752 Pulaski avenue, \$2,000. Architect, private plans. Owner, Julius Landau, 1816 North Seventh street, Philadelphia. Brick, 2 stories add., 36x8 feet, slag roof, general alterations. Owner will build.

**Apartment House**, Medary and Camac streets, Philadelphia. Architect, Jess Brinton Young, 2006 West Tioga street. Owner, Roy A. Fahs, 2507 West Lehigh avenue, Philadelphia. Brick, 3 stories, 53x26 feet, tile roof, oak, pine and composition floors, iron work, bond, steam heating, electric lighting. Architect taking bids due March 28th.

**Residence**, 322 West Mt. Pleasant avenue, Philadelphia, \$5,000. Architect, private plans. Owner, J. C. Haldeman, Seventh and Dauphin streets, Philadelphia. Brick, 2 stories, 16x51 feet, slag roof, oak and pine floors,

electric lighting. Owner will build.

**Garage**, Northwest Corner Chew and Lawrence streets, \$8,250. Owner, Edward Hankins, 5519 North American street, Philadelphia. Brick, 1 story, 25x100 feet, slag roof, cement floors, electric light. Owner will build.

**Residences (2)**, East side Thirteenth street, South of Nedro, \$5,000. Architect, private plans. Owner, Charles F. Reichart, Sr., 5623 Palethorpe street. Brick, 2 stories, 16x29 feet, 11x11 feet, slag roof, hot water heat, electric light. Owner will build.

**Warehouse**, 1934-38 North Hope street, Philadelphia, \$15,000. Engineers, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners, James Peters & Sons, 1934 North Front street, Philadelphia. Brick, 2 stories, 55x30 feet, 37x12½ feet. Engineers will build.

**Garage**, 140 North Vodge street, Philadelphia, \$7,000. Architect, private plans. Owner, Samuel Fagan, 517 West Susquehanna avenue, Philadelphia. Brick, 1 story, 20x45 feet, 40x71 feet, slag roof, cement floors, electric lighting. Owner will build.

**Garage**, 226 East Bringhurst street, Philadelphia, \$2,000. Architect, private plans. Owner, William Glencer, on premises. Brick, 1 story, 40x16 feet, slag roof, cement floor. Owner will build.

**Residences (62)**, Third, Loudon, Wyoming and Mentor streets, \$279,000. Architect, private plans. Owner, Charles G. Erny, 4665 Paul street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hot water heat, electric light. Owner will build.

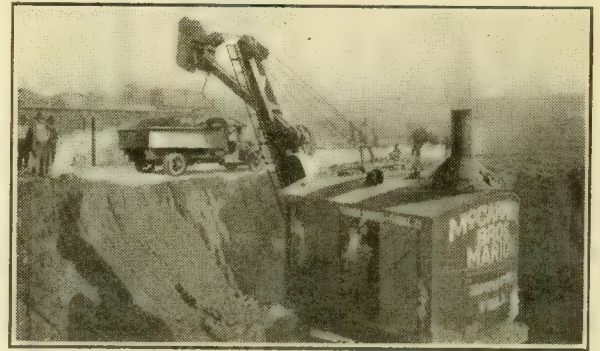
**Residences (10)**, East side Anderson, South of Mt. Airy, \$13,500 each. Architect, private plans. Owner, Frank R. Datesman, 815 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 16x25 feet, 20x18 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (15)**, South side Princeton avenue, East of Frankford avenue, \$4,200 each. Architect, private plans. Owner, John B. Connor, 602 East Indiana avenue, Philadelphia. Brick, 2 stories, 15x42½ feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Workshop**, Southwest Corner Ontario and Rand streets, Philadelphia, \$4,000. Architect, private plans. Owner, Roland Bale, 827 East Westmoreland street, Philadelphia. Brick, 2 stories, slag roof, pine floors, 16x40 feet. Owner will build.

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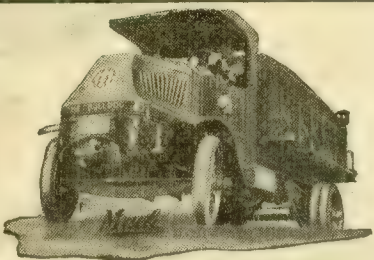
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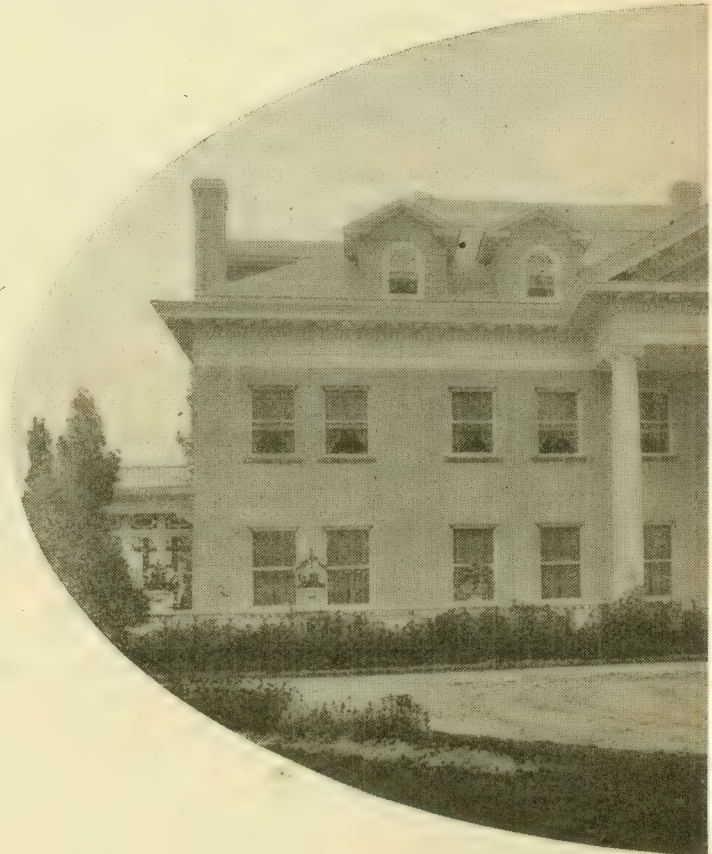
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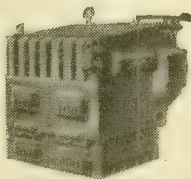
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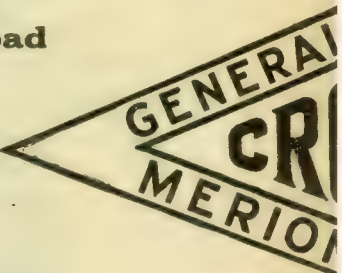
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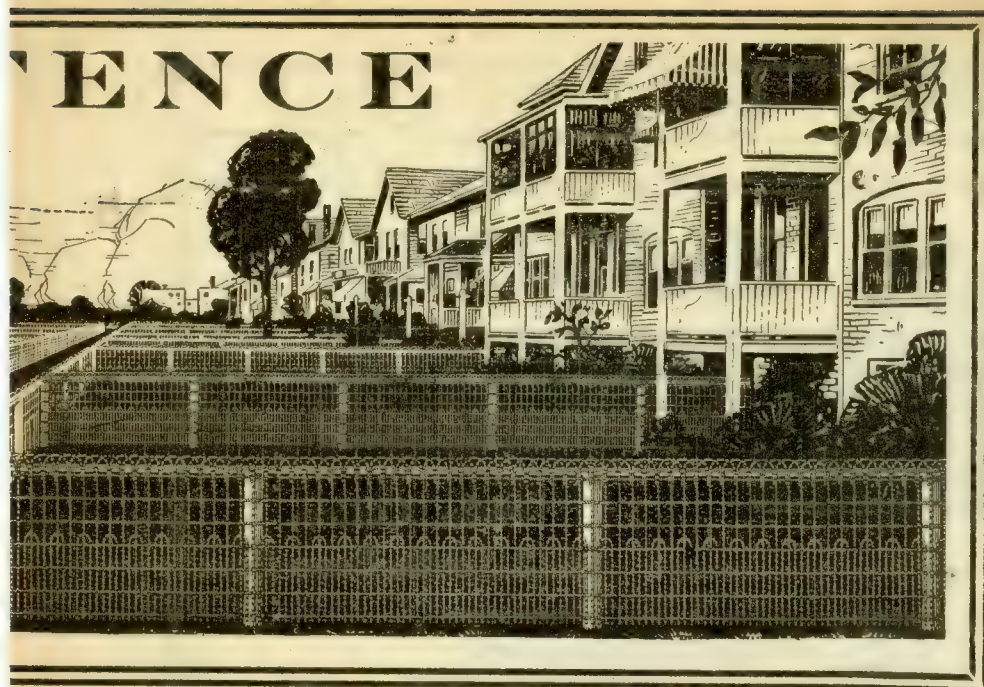
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Granite Block Paving—Chestnut street, from Twenty-third to Schuylkill River, \$18,875.55; Centroni & Mazzola, Lincoln Building, Philadelphia; Thirteenth street, from Spring Garden street to Girard avenue, \$47,344.45; Municipal Paving Company, Philadelphia.

Concrete Flue for Reduction Plant, Forty-ninth and Botanic avenue; Golove Eng. & Const. Co., 1033 Chestnut street, \$6,163.

Furnishing and Delivering Stone—Birdsboro Stone Co., Land Title Building, Philadelphia, \$55,120.

Store Building (alts.), 124 South Thirteenth street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Lousol's, on premises. Carpentry, mill work, rubbertile and oak floors, plastering, painting, glazing, tile and terrazzo

work. Architect taking bid from Potts Brothers & Cooperson, 1016 Cherry street, due as soon as possible.

Residence and Garage, Spring Bank and Westview avenue, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owners, Mr. and Mrs. Albert E. Bacon, 5224 Greene street, Germantown. Stone, 2 stories, 30x50 feet, wing 18x22 feet, shingle roof, composition and hardwood floors, hot water heating, electric lighting, tile and marble work. Architect taking bids due March 28th.

Office and Apartment House, Eighth and Montgomery avenue. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, C. R. Briggs, 1803 North Eighth street, Philadelphia. Brick, 3 stories, 18x82 feet, will contain 5 apartments, slag roof, pine and hardwood floors, hot water heating, electric lighting, metal lath, tile work, fire tower. Plans in progress. Architect will be ready for bids in ten days.

Playground, Cotton, Silverwood, Rector and Cresson streets. Owners, Department of Public Welfare, Bureau of Recreation, 117 City Hall, F. H. Caven, Director. Constructing, erecting and painting fences with concrete posts and galvanized iron pipe rails. Deposit, \$5.00. Construction of retiring room in Juniata Park, "H," Cayuga, "L" and Frankford Creek, Thirty-third Ward; deposit, \$5.00. Reconstruction of and development of Aramingo Square, soil, seeding, sodding, hedge plants, construction of grano-

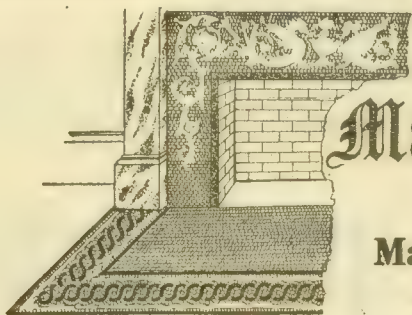
lithic walk; deposit, \$5.00. Furnishing and laying sod in various parks and squares for the year of 1923. Owners taking bids due March 28th at noon, 216 City Hall.

Residences (10), Fifth and Cayuga streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Fred L. Shubert, 4011 North Marshall street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, oak and pine floors, hot water heating, electric lighting. Owner taking sub-bids due March 27th.

Residences (34), Fifty-sixth and Berks streets, Philadelphia, \$154,000. Architect, private plans. Owner, R. H. Pugh, Ridge and Girard avenues, Philadelphia. Brick, 2 stories, (2) 16x44 feet, (32) 16x30 feet, 12x10 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will build.

Store Building (alts. and add.), 1811-13 Spring Garden street. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, David F. McAllister & Son, 1343 South Twentieth street, Philadelphia. Brick work, cut stone, plastering, carpentry, mill work, slag roof, oak floors, metal lath, tile work, painting, glazing, bond, iron work. Architects taking bids due March 22nd at noon.

Store and Apartments (alts. and add.), Southeast Corner Second and Girard avenue. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. General alterations and additions. Architect will take bids in one week.



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**Garage**, Southeast Corner Eleventh and Dakota streets, Philadelphia, \$6,000. Architect, private plans. Owner, Charles Kirbick, 2300 North Thirteenth street, Philadelphia. Brick,

2 stories, 34x90 feet, slag roof, cement and pine floors, electric lighting. Owner will build.

lights, plate glass, iron work, patent store front. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

**Two-Family Residence (alts. and add.)**, 3301 North Seventeenth street, \$7,000. Architect, private plans. Owner, M. H. Gold, on premises. Brick, 2 stories add., 10x16 feet, 16x9 feet, general alterations. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

**Apartment Houses (2)**, Forty-eighth and Pine streets, Philadelphia, \$600,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, name withheld. Brick, concrete, steel and limestone, terra cotta, 4 stories, will contain 70 apartments, slag roof, hardwood, pine and composition floors, ventilators, metal skylights, tile and marble work, steam heating, electric lighting, tile work. Contract awarded to Rose Const. Co., North American Building, Philadelphia.

**Manufacturing Building**, Fourth and Race streets, Philadelphia. Architects, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners, Stephen F. Whitman & Son, Inc., 415 Race street, Philadelphia. Reinforced concrete and brick, 9 stories, 80x107 feet, slag roof, cement floors, elevators, steam heating, electric lighting, rolled steel sash and skylights, fire doors, iron stairs, cork insulation. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Storage Building**, Fifty-sixth and Summer streets, Philadelphia, \$30,000. Architects, Richard R. Neely and E. William Martin, 2301 Spruce street. Owners, West End Storage Co., on premises. Brick, concrete and steel, 2 stories, 60x115 feet, slag roof, concrete slab and plank floors, steam heating, electric lighting, rolled steel sash and skylights. Contract awarded to Felix Clare, 5439 Webster street.

**Mill Building**, Emerald and Allegheny avenue, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Krout & Fite Mfg. Co., on premises. Reinforced concrete, brick and steel, 5 stories, 129x59 feet, slag roof, cement and plank floors, metal lath, rolled steel sash and skylights, fire doors, bond, iron stairs, iron work, waterproofing, terra cotta. Contract awarded to H. H. Burrell, 206 South Quince street.

**Stable (add.)**, Hunting Park and Torresdale avenues, \$10,000. Architect, Walter E. Timm, Perry Building, Philadelphia. Owners, Harbison's Dairies, Front and Diamond streets. Brick and steel, 1 story, 15x17 feet, slag roof, concrete floors, terra cotta, iron work, floor hardener, bond, rolled steel sash

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Laundry Building (add.)**, Thirty-second, above Powelton avenue. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Pennsylvania Laundry Co., on premises. Reinforced concrete, brick, steel and cut stone, 3 stories, 92x81 feet, slag roof, composition and maple floors, roof ventilators, iron work, bond, fire steel doors, tile work (plumbing, electric work, elevators, sprinklers reserved). Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

**Church and Rectory**, Southwest Corner Twenty-first and Snyder avenue, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Edmund's Roman Catholic Church, care of Rev. James J. Duffy, on premises. Brick, cut stone, reinforced concrete and steel, 1 and 3 stories, 192x60 feet and 95x42 feet, tile roof, concrete, pine and plastic composition floors, metal lath, tile and terrazzo work, rolled steel skylights, iron work. Contract awarded to McLaughlin & McNally, Eighty-first and Suffolk avenue, Philadelphia.

**Building (alts.)**, 109-111 South Fourth street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Provident Mutual Life Insurance Co., on premises. Brick, concrete and steel work, cement floors, metal lath, plastering, tile work, hardware, painting glazing. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Building (add.)**, Arch street, between Juniper and Broad streets. Architect, E. V. Seeler, 201 South Juniper street, Philadelphia. Owners, The Evening Bulletin, on premises. Brick, steel, concrete and stone, 7 stories, 134x90 feet, slag roof, maple and concrete floors, roof ventilators, metal lath, tile and marble work, rolled steel sash, iron stairs, iron work (heating, plumbing and electric work reserved). Plans about completed. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

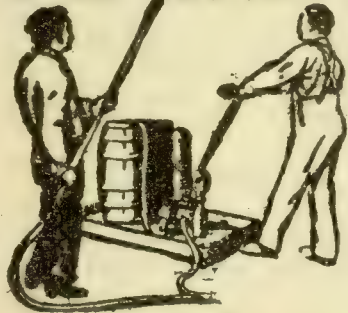
**Municipal Building**, Germantown avenue and Haines street. City architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Bureau of City Property, Department of Public Works. Brick, cut stone, concrete, steel, 3 stories, 122x74 feet, rolled steel sash and skylights, tin-lined doors, bond, slag roof, cement and monolithic floors, metal lath, iron work, dampproofing, terra cotta. Contracts awarded to: Mitchell Houseworth, Inc., 2512 North Twenty-seventh street, \$424,713. Heating, Austin, Gorham & Melvain, 1816 Ludlow street; A, \$16,800; B, \$15,482; unit, \$14. Electric, Greenwood Eng. Co., 3314 Lancaster avenue, \$7,204.67. Plumbing, Bulman Brothers, Fifth and Cumberland streets, \$14,466. Ventilating, William Early & Sons, 1216 Ridge avenue, \$725.

**Lodge and Office Building**, Southeast Corner Nineteenth and Addison streets. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Knights of Pythias, B. G. Collier, secretary of Building Committee, 415 South Nineteenth street. Brick, concrete and steel, 4 stories and basement, 50x150 feet, slag roof, concrete or terra cotta floors, pine floors, metal lath, wire lath, slate treads, ornamental iron work, tin covered doors, vapor heating, electric lighting. Contract awarded to Joseph F. Trent, 2041 Master street, Philadelphia.

**Playgrounds (2)**, Cheltenham avenue and Anderson street, \$6,547; Fifty-eighth and Westminster avenue, \$1,757. City architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Welfare, Bureau of Recreation. Sodding, surfacing, iron fence, repairs to gates. Contract awarded to Mitchell Houseworth, Inc., 2512 North Twenty-seventh street.

**Store, Apartment and Garage (alts. and add.)**, 41 North Fifty-second street, \$15,000. Architect, private plans. Owner, Louis J. Jahn, 5213 Haverford avenue. Brick and marble work, hot water heat, slag roof, plumbing, electric light, galvanized iron sky-

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(electric lighting, plumbing and sprinklers separate bids). Contract awarded to W. O. Springer, 2004 Naudain street.

**Office Building**, 1904 Sansom street, Philadelphia, \$7,000. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owner, John Buchanan, on premises. Brick, 3 stories, 23x16 feet, slag roof, cement and pine floors (heating, electric work and plumbing reserved). Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residence and Store**, Huntingdon and Germantown avenues, \$12,000. **Office and Store**, Huntingdon and Cadwallader street, \$3,000. Owner, H. D. Clausen, 2617 Germantown avenue, Philadelphia. Brick, 2 stories, 20x45 feet, and 2 stories, 25x20 feet, slag roof, oak and pine floors, electric work. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue.

**Apartment (alts.)**, 1726 North Seventh street, Philadelphia, \$9,000. Architect, private plans. Owners, North Eastern Hebrew Home, on premises. General alterations, plastering, carpentry, mill work, metal lath, steam heat, electric work, painting, glazing. Contract awarded to Schechtman Brothers, 1734 North Seventh street.

**Two-Family Residence and Garage (alts. and add.)**, 6517 North Seventh street, Philadelphia, \$6,500. Owner, Frank P. Wagner, on premises. Brick, 1 story add., 15½x33½ feet, general alterations, garage, 1 story, 20x20 feet, cement floors, slag roof. Contract awarded to Walter J. Erwin, 3532 North Fifteenth street.

**Garage**, 6642 McCallum street, Philadelphia, \$5,000. Architect, private plans. Owner, William Freihofer, on premises. Hollow tile and stucco, 2 stories, 23x24 feet, 9x11 feet, tile roof, cement floors. Contract awarded to P. Haibach Const. Co., 1261 North Twenty-sixth street.

**Warehouse (add.)**, Twenty-ninth and Tasker streets, \$2,200. Owner, Jack Sassi, 2725 Tasker street, Philadelphia. Brick, 1 story, 14x16 feet. Awarded to L. Manfredi & Co., 1547 South Ringgold street.

**Garage**, West side Twenty-first street, South of Godfrey avenue, \$16,400. Architect, private plans. Owner, Andrew Wahl, 4833 North Fifteenth street, Philadelphia. Brick, 1 story, 105x90 feet, slag roof, cement floors, steel sash, electric lighting. Contract awarded to Charles Sinn, 5518 North American street.

**Residences (7)**, Front and Luray streets, Philadelphia, \$30,000. Architect, private plans. Owner, E. McMaster, 4933 North Fifth street, Philadelphia. Brick, 2 stories, (1) 14x28 feet, (6) 14x28 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Louis Braenning, Jr., 4933 North Fifth street.

**Residence (alts.)**, 2957 North Twenty-second street, Philadelphia, \$4,100. Architect, private plans. Owner, G. Santanillo, 3014 North Twenty-first street, Philadelphia. Gen-

eral alterations. Contract awarded to P. Jacobs, 908 North Eighth street, Philadelphia.

**Tank Tower**, Northwest Corner Thirty-fourth and Market streets, Philadelphia, \$3,300. Architect, private plans. Owners, Stephen Greene Printing Co., Sixteenth and Arch streets, Philadelphia. Steel. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

**Residences (alts.)**, 2012 Spruce street, Philadelphia, \$3,000. Architect, private plans. Owner, Dr. J. B. Carnett, on premises. General alterations. Contract awarded to H. H. Burrell, 206 South Quince street.

**Office (add.)**, 812 North Lawrence street, Philadelphia, \$2,500. Architect, private plans. Owners, Sheip & Vandergrift, on premises. Brick, second story add., 16x68 feet, slag roof, pine floors. Contract awarded to Ellis & Fisher, 344 North Fourth street.

**Residence and Store (alts.)**, Northwest Corner Twenty-ninth and Cumberland, \$2,200. Architect, private plans. Owner, Charles Wintensky, 2546 North Thirty-first street, Philadelphia. General alterations. Contract awarded to Charlick & Chaplin, 3109 Dauphin street.

**Residence, Store and Garage**, Northwest Corner Fifty-sixth and Media streets, \$2,050. Architect, private plans. Owner, Hyman Garfield, on premises. Brick, 1 story, 21x16 feet, slag roof, pine and cement floors. Contract awarded to A. P. Luckner, 5136 Park-side avenue.

**Building (alts.)**, 111 South Thirteenth street, Philadelphia, \$4,200. Architect, private plans. Owner, S. Steeper, on premises. General alterations. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

**Church (alts.)**, 1112-20 Lombard street, \$4,000. Owners, Shilo Baptist Church, on premises. General fire repairs, leaded glass, carpentry, tile work. Contract awarded to Ketcham & McQuade, 1029 Brown street.

**Residence and Store (alts.)**, 5555 Germantown avenue, \$3,500. Architect, private plans. Owner, Frank Campbell, on premises. General alterations. Contract awarded to J. Maurer & Co., 1304 North Second street.

**Residence (add.)**, 338 South Smedley street, \$3,000. Owner, R. C. Allen, on premises. Brick, 1 story, 16x11 feet, slag roof, pine floors. Contract awarded to Albert Zellfelder, 1324 Walnut street.

**Residence and Store (alts.)**, 2443 South Seventh street, \$2,000. Owner, Ruben Feldman, on premises. General alterations. Contract awarded to Sanberg & Naulty, 2226 South Ninth street, Philadelphia.

**Residence**, 1719 Blavis street, Philadelphia, \$3,800. Architect, private plans. Francis Conway Estate, care of [redacted]. Brick, 2 stories, 14x27 feet, 10x11 feet, slag roof, hot water heat, electric light. Contract awarded to Conway Brothers, 1717 Blavis street, Philadelphia.

**Residence (alts. and add.)**, 326 South Smedley street, \$5,000. Architect, private plans. Owner, Frank C. Levin, 1001 Spruce street, Philadelphia. Brick, second and third story adds., 12x10 feet, general alterations. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

**Manufacturing Building (add.)**, Northeast Corner Front and Olney, \$2,000. Owners, Heintz Mfg. Co., on premises. Steel frame, 1 story, 66x16 feet, cement floors. Contract awarded to William F. Newberry Co., Otis Building, Philadelphia.

**Apartment House**, Northeast Corner York and Tabor roads, \$145,000. Architects, Kennedy & Thompson, 1324 Walnut street, Philadelphia. Owners, Louis H. Cahan & Son, 1324 Walnut street, Philadelphia. Brick, 4 stories, 108x112 feet, slag roof, hardwood floors, electric light, tile work. Contract awarded to Penn Realty Co., 1324 Walnut street.

**Residence and Store**, 318 Fitzwater street, Philadelphia, \$12,000. Architect, private plans. Owner, A. Zuskin, 319 Fitzwater street, Philadelphia. Brick, 2 stories, 19x72 feet, 15x56 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Morris Tacknitz, 1202 North Seventh street, Philadelphia.

**Residence**, Northeast Corner Wayne and Carpenter streets, \$14,000. Architect, private plans. Owner, George Marston, 232 South Durham street, Philadelphia. Hollow tile, 2 stories, 26x41 feet, steam heat, electric light, hardwood and pine floors, tile work. Contract awarded to W. T. Garrison, 1338 North Tenth street.

**Garage**, 4522-28 Merion avenue, Philadelphia, \$5,800. Architect, private plans. Owner, John Bradley, 4531 Lancaster avenue, Philadelphia. Brick, 1 story, 50x76 feet, cement floors, electric light, slag roof. Contract awarded to Giles Const. Co., 412 North Fortieth street, Philadelphia.

**Apartment House (alts. and add.)**, 1834 West Diamond street, \$2,000. Architect, private plans. Owner, M. W. Rich, 2138 North Gratz street, Philadelphia. Brick, 1 story add., 10x11 feet, general alterations. Contract awarded to Charles H. Bookes, 2257 North Uber street.

**Residences and Garages (2)**, Harrison and Large streets, \$13,000. Architect, private plans. Owner, Howard S. Jones, 1507 Foulkrod street, Philadelphia. Brick, 3 stories, 16x23x25 feet, slag roof, oak, pine and cement floors, electric lighting. Contract awarded to Harold Stout, Cheltenham, Pa.

**Warehouse (add.)**, 1247 North Tenth street, Philadelphia, \$15,000. Architect, private plans. Owners, Beck Wall Paper Co., 1553 North Thirteenth street, Philadelphia. Brick, slow burning, 3 stories, 16x96 feet, slag roof. Contract awarded to George Kessler Const. Co., 1733 North Marvine street.

**Residence (add.)**, 2202 East Cumberland street, \$6,000. Architect, private plans. Owner, Dr. Robert Seifert, on premises. Brick, 3 stories add., 12x13 feet, slag roof, oak floors. Contract awarded to Wintz Brothers, 1618 Sellers street.

**Residence (add. and alts.)**, 2359 North Park avenue, \$5,000. Architect, private plans. Owner, George E. Schweig, 1908 Erie avenue, Philadelphia. Brick, second and third story adds., 18x9 feet, slag roof. Contract

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# TILES

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**Residences (16),** Sixty-eighth and Upland streets, Philadelphia, \$52,500. Architect, private plans. Owner, P. Shapiro, 38 South Eighth street, Philadelphia. Brick, 2 stories, 15x29 feet, 12x10 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to W. B. Gaskill, Moore, Delaware County, Pa.

**Residence,** Northeast Corner Wheatsheaf lane and Thompson street. Architect, private plans. Owner, Fred B. Shinkel, Jr., care of builder. Brick, 2 stories, 16x42 feet, slag roof, oak and pine floors. Contract awarded to C. Day, 3503 Decatur street, Philadelphia.

**Residences (2),** South side Buist avenue, West of Seventy-ninth street, \$4,500 each. Architect, private plans. Owner, John McIntyre, 2612 South Hicks street, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Liberty Cont. Co., 34 South Seventeenth street.

**Residence (add.),** 174 West Master street, Philadelphia, \$4,250. Architect, private plans. Owner, Miss C. McCarey, on premises. Brick, 2 stories, 13x13 feet, slag roof, oak floors, electric lighting. Contract awarded to Edward C. Sherry, 1512 North Second street.

**Shop,** 4317 North Third street, Philadelphia, \$4,000. Architect, private plans. Owners, Fero Machine Co., Lawrence and Tioga streets, Philadelphia. Brick, 1 story, 40x60 feet, slag roof. Contract awarded to Charles G. Erny, 4665 Paul street, Philadelphia.

**Stable (alts.),** 4247-53 Stiles street, Philadelphia, \$3,600. Architect, private plans. Owner, Charles H. Stanley, 44 North Thirty-eighth street, Philadelphia. Brick, 1 story, 43x65 feet, slag roof. Contract awarded to Frank N. Percival, 6229 Market street.

**Building (alts.),** Northeast Corner Madison and Kensington avenue, \$3,500. Architect, private plans. Owner, J. Lafferty, 3329 Emerald street, Philadelphia. General alterations. Contract awarded to E. Clarke, 850 East Ontario street, Philadelphia.

**Garage,** 2638 East Lehigh avenue, Philadelphia, \$2,250. Architect, private plans. Owner, J. Kumiersky, on premises. Brick, 1 story, 20x22 feet, slag roof, cement floors. Contract awarded to Fred Williams, 914 North Third street, Philadelphia.

**Warehouse (alts.),** Northeast Corner Ninth and Girard avenue, \$3,000. Owners, Swift & Co., on premises. General alterations. Contract awarded to McNeill-Valentine Co., 841 North Broad street.

**Garage (add.),** 63 West Good street, Philadelphia, \$3,000. Owner, Joseph A. Kinny, 138 West Sharpnack street, Philadelphia. Brick, 1 story add., 17½x62 feet, slag roof, cement floors. Contract awarded to V. Belmonte, 204 East Haines street.

**Buildings (alts.),** 1430-32 Girard avenue, \$4,000 each. Architect, private plans. Owner, Charles Schrenk, 1912 Arch street, Philadelphia. General alterations. Contract awarded to T. S. Fetter, 1829 Filbert street.

**Residence (add.),** 759 South Ninth street, Philadelphia, \$2,000. Owner, P. Privato, on premises. Brick, second and third story adds., 14x20 feet, slag roof, pine floors. Contract awarded to Charles Testa, 1149 South Fifteenth street, Philadelphia.

**Residences (3),** West side Walker street, South of Howell, Philadelphia, \$3,000 each.

Architect, private plans. Owner, A. Huber, 3028 Howell street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors. Owner will build.

**Schools (2),** Fifty-fourth and Berks streets and Seventeenth and Lindley avenue. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Reinforced concrete, brick, granite and steel, 3 stories and basement, 171x147 feet, composition and tile roof, maple floors, tile work, rolled steel sash and doors, bond, waterproofing, iron work. Contracts awarded to: Fifty-fourth and Berks—General, Sinclair & Griggs, Medical Arts Building, \$445,800; heating, William Earley's Sons, 1216 Ridge avenue, \$44,900; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$21,916; electric, Ross Elect. Co., Beach and Brown streets, \$17,400; ventilating, William Howlett, Fifth and Columbia avenue, \$1,413. Seventeenth and Lindley avenue, Philadelphia—General to Sinclair & Griggs, Medical Arts Building, \$478,000; heating, William Earley's Sons, 1216 Ridge avenue, \$44,000; electric, Walker Kepler Co., 531 Chestnut street, \$17,233; plumbing, Bulman Brothers, Fifth and Cumberland streets, \$21,366; ventilating, William Howlett, Fourth and Columbia avenue, \$1,413.

**Office Building,** 5225 Chestnut street, Philadelphia.

**School, McKinley, Pa.** Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, Abington Township School Board, J. O. Potts, secretary, Glenside, Pa. Stone and brick, 1 story and basement. Plans in progress.

**Club Buildings, Swimming Pool, Links, etc.,** Brookline, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Brookline Square Club, J. Elmer Watts, Brookline, Pa. Stone and brick. Architects will be ready for bids in 2 weeks.

**High School (add.),** Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, J. O. Potts, Glenside, Pa. Stone, 2 stories and basement, 9-room addition. Plans in progress.

**Grade School (add.),** North Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, J. O. Potts, Glenside, Pa. Stone and brick. Plans in progress.

**Dye House (add.),** Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Laubet-Scott-Kitz-miller Co., Reading, Pa. Brick. Preliminary plans in progress.

**Residence and Garage,** St. Lawrence, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Claud Brumbach, Brighter Apartments, Second and Penn streets, Reading, Pa. Stucco, 1 and 2 stories, 20x24 feet, 32x40 feet, asbestos shingle

Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, W. Edwin Blair, 451 South Sixty-third street, Philadelphia. Brick, limestone, concrete and steel, 1 story, basement and mezzanine, 110x24 feet, slag roof, cement and maple floors, metal lath, tile and marble work, iron work. Contract awarded to William R. Graham, 3649 Filbert street, Philadelphia.

**Residence (alts.),** 2222 Coral street, Philadelphia, \$2,300. Architect, private plans. Owner, Gus E. Wolmann, on premises. General alterations. Contract awarded to William E. Stone, 2069 East Dauphin street.

**Foundry,** Northwest Corner Wheatsheaf lane and Sepviva street, \$25,000. Engineers, American Eng. Co., Manayunk, Philadelphia. Owners, Robinson Iron & Steel Co., Manayunk, Philadelphia. Iron, 1 story, 60x200 feet, corrugated iron roof, cement floors. Contract awarded to Herbert H. Conway, Fifty-eighth and Walnut streets.

**Shop,** Southeast Corner Twenty-ninth and Clearfield streets, \$4,000. Architect, private plans. Owner, Peter D. Andrea, 2526 West Allegheny avenue, Philadelphia. Brick, 1 story, 26x57 feet, slag roof, electric work. Contract awarded to P. Proscino, 1524 Morris street, Philadelphia.

## PENNSYLVANIA

# Construction News

roof, hardwood floors, electric light, tile work. Plans in progress.

**Stores (2) and Apartments (6) (alts. and add.),** Third street, Harrisburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owner, Mr. Garner, Third and Herr streets, Harrisburg, Pa. Brick, 3 stories, 60x30 feet, composition roof, pine floors, central heating, electric lighting, tile work. Plans in progress.

**Y. M. H. A. (alts. and add.),** Third and Herr streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, care of Dr. Geoffrey, on premises. Brick, 2 stories, 45x60 feet (gymnasium and swimming pool), general interior alterations. Plans in progress.

**Offices, Stores and Lodge Building (alts.),** Bridge and Gay streets, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Order of Independent Americans, John L. McCarragher, chairman, Phoenixville, Pa. Brick and steel, 3 stories, 48x52 feet, tin roof, yellow pine and maple floors, store fronts, office fixtures (heating, lighting and plumbing reserved), metal lath, bond. Plans in progress.

**Residence,** Wayne, Pa. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, F. W. Reed, 34 South Seventeenth street, Philadelphia. Hollow tile and stucco, 2½ stories. Plans in progress. Too early for details.

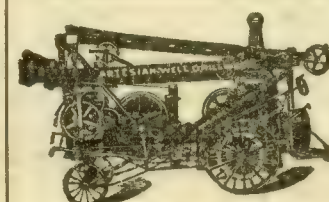
**Theatre,** St. Mary's, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Family Theatre Co., St. Mary's, Pa. Brick and frame, 3 stories, 52x144 feet. Plans in progress. Too early for details.

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**Residence**, Latches lane and Merbrook avenue, Merion, Pa. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Mrs. Mary C. Kerns, care of architect. Stone, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors. Architect will be ready for bids in a few days.

**Store (alts.)**, Berwick, Pa. Architect, Benjamin Rush Stevens, 1737 Filbert street, Philadelphia. Owners, Gelb & Mayers, Bloomsburg, Pa. General alterations. Architect will be ready for bids in one week.

**Bungalows (18)**, Andalusia, Pa. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Howard Ziegler, 1304 North Second street, care of John Maurer. Frame, 1½ stories, 28x28 feet, shingle roof, pine floors, pipeless heaters, electric lighting. Owner sub-lets.

**Residence**, Dauphin, Pa. Architect, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owner, B. Welker, Dauphin, Pa. Local stone, 2 stories, 30x35 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress. Owners taking sub-bids.

**Residence and Garage**, Second street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, S. W. Shoemaker, 421 Walnut street, Harrisburg, Pa. Brick, 2½ stories, 43x27 feet, 22x16 feet, slate roof, hardwood floors, reinforced concrete floors, steam heat, electric light, tile work. Owner will build.

**Residence**, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, H. B. Landis, Reading, Pa. Hollow tile and stucco, 2½ stories, 46x32 feet, tile roof, hardwood floors, vapor heat, electric light. Owner will be ready for bids next week.

**Church**, Thirteenth and Derry streets, Harrisburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Christ Lutheran Church, care of architects. Stone, 1 story and basement, 105x55 feet, slate roof, hardwood floors, vapor heat, electric light. Owners ready for bids.

**Bungalow (1) and Residences (2)**, Highland Park, Pa. Architect, private plans. Owner, James N. Mitchell, 4 South Farragut Terrace. Stone, frame and brick, 1½ stories, 30x40 feet, and 2½ stories, 25x29 feet, slate and shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will be ready for sub-bids in two weeks.

**Residence (alts.)**, 125 Keswick avenue, Glenside, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street. Owner, Samuel A. Spearing, Glenside, Pa. General alterations, pine floors, hot water heating, electric lighting. Owner is ready for bids.

**Residence and Garage**, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, A. R. Alessi, Tenth and Cedar streets, Darby, Pa. Stone and stucco, 2½ stories, 30x82 feet, shingle roof, hardwood floors, hot water or hot air heating, electric lighting, tile work. Owner will build.

**Residences (2) (alts. and add.)**, Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Elwood Egolf, Main street, Royersford, Pa. Frame and stucco, 3 stories, 41x26 feet, shingle and tin roof, yellow pine and concrete floors (heating, plumbing, lighting and laundry reserved), metal lath. Plans in progress. Owner will take sub-bids.

**Residence**, Swarthmore, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owner, Mrs. Martha Blessing, Swarthmore, Pa. Stone and cinder block (concrete) stuccoed, 2½ stories, 25x38 feet, shingle roof, oak and pine floors, hot air heating, electric lighting. Plans completed. Architect is ready for sub-bids.

**Residences (8)**, Luce street, Harrisburg,

Pa., \$24,000. Owner, C. H. Miller, 1708 State street, Harrisburg, Pa. Brick, 2½ stories, slag roof, pine floors, electric lighting. Owner will build.

**Residences (4)**, Seventeenth and Herr streets, Harrisburg, Pa. Architect, private plans. Owner, S. J. Browe, 28 South Nineteenth street, Harrisburg, Pa. Brick, 2½ stories, pine floors, electric light. Owner will build.

**Residences (14)**, Chestnut street, Harrisburg, Pa., \$82,000. Architect, private plans. Owner, William A. McIlhenny, 1846 Market street, Harrisburg, Pa. Brick, 2½ stories, shingle roof, hardwood floors, steam heat, electric light, tile work. Owner will build.

**Residences (12)**, Green street, Harrisburg, Pa., \$48,000. Architect, private plans. Owner, C. L. Long, Kunkel Building, Harrisburg, Pa. Brick, 2½ stories, shingle roof, pine floors, electric lighting. Owner will build.

**Foundry**, Reading, Pa. Architect, F. A. Muhlenberg, Liberty Bank Building, Reading. Owners, Chantrell Hardware & Tool Co., Millmont, Reading. Brick, 1 story, 60x60 feet, composition roof, electric light, steel sash. Architect taking bids due March 26th.

**Residence and Garage**, Pottsville, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Charles H. Leaman, Pottsville, Pa. Tapestry brick, 2½ stories, 47x46 feet, green slate roof, hardwood floors, vapor heating, electric lighting, plumbing, metal lath and cement work. Owner is taking bids.

**Bank Building**, Hazleton, Pa. Architects, Mowbray & Uffing, 56 Liberty street, New York City. Owners, American Bank & Trust Co., Hazleton, Pa. Brick, concrete, steel, castone and granite, 8 stories, 66x106 feet, slag roof, cement floors, waterproofing and dampproofing, terra cotta, iron work, iron stairs, bond, copper skylights, hollow metal sash, marble and terrazzo, metal lath, steam heating, electric lighting (vault doors, cork and linoleum floors and elevators reserved). Architects taking bids due March 27th at 10 A. M.

**Residence and Garage**, Elkins Park, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, F. E. Dixon, 1428 Walnut street, Philadelphia. Brick, 3 and 2½ stories, irregular size, slag roof, oak and pine floors, iron work, hot water heating, electric lighting, tile and iron work. Architect taking bids due March 22nd.

**Golf Course Water Supply System and Pump House**, Bala, Pa. Engineers, Harrison, Mertz & Emlen, Franklin Bank Building, Philadelphia. Owners, Philadelphia Country Club, Bala, Pa. Stone, 1 story, 14x14 feet, concrete roof and floors, electric lighting, plastering, waterproofing. Engineers taking bids due March 23rd.

**Residence**, Malvern, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Frank A. Hughes, care of architect. Frame, 2½ stories, 26x35 feet, shingle roof, hardwood floors, vapor heating, electric lighting, tile work. Architect taking bids due as soon as possible.

**Office Building (add.)**, Bridgeport, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Sons, Bridgeport, Pa. Brick, reinforced concrete, steel and cut stone, 2 story add., 40x85 feet, and 3 story add., 40x50 feet, slag roof, concrete and composition floors, safety treads, iron work, bond, metal lath (heating, electric work and plumbing reserved). Architects taking bids due March 22nd.

**Residence**, Swarthmore, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, J. Russell Smith, Swarthmore, Pa. Stone, 2½ stories, 70x30 feet, shingle roof, pine and stedman flooring, warm

air heating, electric lighting, (3) tile baths. Architects taking bids due March 23rd at 5 P. M.

**Residence and Garage**, Abington, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, George W. Peters, 4736 North Rosehill street, Philadelphia. Hollow tile and stucco, 2½ stories, 38x25 feet, slate roof, hardwood, pine and linotile floors, hot water heat, electric lighting, tile work. Owner taking bids.

**Twin Residences (2 pairs)**, Northeast Corner Latches lane and Old Lancaster avenue, Montgomery County, Pa. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owners, Philip Malickson and Bernard R. Cohn, 1423 Vine street, Philadelphia. Hollow tile and stucco, 2½ stories, 34x75 feet, Spanish tile roof, hardwood floors, garages attached. Architect taking bids due March 22nd.

**High School**, Barnesboro, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Barnesboro Township School District, care of architect. Brick, semi-fireproof, 2 stories, 160x86 feet, slag roof, maple floors, warm air heat, electric light, tile work, hollow tile, metal lath, skylights, roof ventilators, iron stairs. Owners taking bids due April 4th.

**Church and Sunday School**, Lansdale, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Evangelical Lutheran Church, Rev. S. H. Paules, Lansdale, Pa. Stone, 1 story and basement, 50x150 feet, slate roof, composition and hardwood floors, waterproofing and dampproofing, iron work, rolled steel skylights, metal lath, vapor heat, electric light. Owners taking bids due about April 1st.

**Storage Reservoir**, West Chester, Chester County, Pa. Borough engineer, T. G. Colesworthy, Court House, West Chester, Pa. Consulting engineers, Remington & Vosbury, 601 Market street, Camden, N. J. Owners, Borough of West Chester, M. M. Davis, secretary of Council, Borough Hall, West Chester, Pa. Concrete and earth fill dam and excavation of reservoir site, approximately 1,565 cubic yards of concrete, 1,400 square yards of rip rap stone and 25,000 cubic yards of earth excavation, furnishing and installing 16-inch and 24-inch C. I. pipe, valves and sluice gates, bond. Owners taking bids due April 2nd at noon. Deposit, \$10. Refund, \$10. Certified check, \$1,000.

**Hotel**, Canadensis, Pa. Architect, B. Taylor Lacey, Binghamton, N. Y. Owners, Spruce Cabin Inn, care of architect. Steel frame, tile and stucco, gypsum pre-cast fireproofing, cement and marbleoid floors, steel stairs, slag and tile roof, 290x220 feet, irregular, T-shaped, 4 stories and 3 stories and basement. Architect will be ready for bids April 1st.

**School**, Fernwood, Pa. Architect, Horace W. Caster, Stephen Girard Building, Philadelphia. Owners, Board of School Directors of the School District of the Township of Upper Darby, Arthur Garrett, president; J. Milton Lutz, secretary, Upper Darby Branch P. O., Upper Darby, Pa. Brick, cut stone, limestone, concrete and steel (alternate for castone), 2 stories, 79x58 feet, Barrett roof (alternate for gypsum tile), cement and maple floors, roof ventilators, iron work, iron stairs, bond, copper skylights, terrazzo, metal lath (heating, lighting and plumbing separate bids). Owners taking bids due April 5th, 8 P. M. (alternate for metal doors and sash). Deposit, \$20. Refund, \$15.

**Country Club (alts.)**, Jenkintown, Pa. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Old York Road Country Club, Jenkintown, Pa. Brick, reinforced concrete, stone and steel, 3 stories, irregular size, slag and shingle roof, composition and pine floors, metal lath, tile and marble work, bond (heating, electric work



reserved). Architect taking bids due March 28th at noon.

**Warehouse**, Southwest Corner Fifth and Up-land streets, Chester, Pa. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owners, Samuel Headley Co., on premises. Brick, steel and concrete, 5 stories and basement, 126x101 feet, asphalt roof, cement floors, hollow tile, dampproofing, iron work, floor hardener, bond, hollow metal and steel doors, rolled steel sash (heating, lighting, plumbing and elevators reserved). Architect taking bids due March 27th.

**Paper Mill**, Edgely, Pa. Architects, Abbott Merkt & Co., 175 Fifth avenue, New York City. Owners, Megargee Paper Mills Co., Modena, Pa. Brick, steel and concrete. Engineers taking sub-bids.

**Residence**, Glenside, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Dr. Francis J. Smith, 4523 Old York road, Philadelphia. Stone, 2½ stories, 44x27 feet, shingle roof, oak and pine floors, hot water heating, electric lighting, tile work, bond. Architect taking bids due March 24th.

**Warehouse**, Lancaster, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers Co., Third and Spruce streets, Philadelphia. Brick, steel and concrete, 3 stories and basement, 67¾x182½ feet, slag roof, concrete floors, (1) elevator, cold water painting, roof ventilators, waterproofing, floor hardener, bond, steel rolling doors, rolled steel sash, steam heat, electric lighting. Architect taking bids due March 31st.

**Residence**, Willow Grove, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, John Rucker, Hancock and Diamond streets, Philadelphia. Brick, stone and bluestone, 2½ stories, 40x65 feet, shingle (asbestos) roof, hardwood floors, hot water heating, electric lighting, plumbing, artesian well. Plans completed. Architect will be ready for bids in a few days.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Owners taking bids due April 3rd at 10 A. M. Certified check to accompany each bid. Proposal forms and specifications free. Plans, \$2.50 per set.

Beaver County, Route 204, Appli. 1,942, Patterson and Chippewa Townships, 7,979 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Butler County, R-214, A-1,973, Fairview Township, 11,322 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$2,000.

Clarion County, R-214, A-2,233, Clarion and Monroe Townships, 14,636 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$2,500.

Clarion County, R-214 and 311, A-1,940, Sligo Borough, 5,187 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,000.

Clarion County, R-66, A-1,939-2,168, Clarion Township and Borough, 12,867 feet. One course reinforced concrete. Certified check, \$2,000.

Clarion County, R-218, A-1,928-1,929-1,930-1,931, Edensburg Borough, 6,995 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$1,500.

Clarion County, R-91, A-2,217, Washington Township, 12,698 feet. One course reinforced concrete. Certified check, \$2,000.

Clarion County, R-91, A-2,218, Washington Township, 5,766 feet. One course reinforced concrete. Certified check, \$1,500.

Crawford County, R-200, A-2,124, Blooming Valley Borough and Richmond Township,

34,462 feet. One course reinforced concrete. Certified check, \$4,000.

Crawford County, R-271, A-2,182 and 2,183, Oil Creek Township and Hydetown Borough, 22,845 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Crawford County, R-85, A-2,245, Spring Township and Springboro Borough, 33,532 feet. Either bituminous course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Crawford County, A-2,246, Springboro Borough, 6,389 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Indiana County, Route 68, White Township, 2,727 feet. One course reinforced concrete. Certified check, \$1,000.

Lawrence County, R-233, A-2,271, Scott and Plain Grove Townships, 18,189 feet. Either bituminous surface course on concrete foundations or one course reinforced concrete. Certified check, \$3,500.

Mercer County, A-1,965, Stoneboro Borough, 3,275 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$1,000.

Mercer County, A-2,106 and 2,010, Perry Township, 28,563 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Monroe County, A-2,141, Smithfield Township, 10,952 feet. Either bituminous macadam (penetration method) on Telford base or one course reinforced concrete. Certified check, \$2,000.

Monroe County, A-1,963, Pocono and Paradise Townships, 7,051 feet. Bituminous macadam (penetration method) on broken stone base. Certified check, \$1,000.

Northampton County, A-2,105 and 2,167, Hellertown Borough and Lower Saucon Township, 22,330 feet. One course reinforced concrete. Certified check, \$4,000.

Northampton County, A-2,225, North Catasauqua Borough, 3,844 feet. One course reinforced concrete. Certified check, \$1,000.

Northampton County, A-2,252, Wilson Borough, 4,834 feet. One course reinforced concrete. Certified check, \$1,000.

Northampton County, A-2,128 and 2,166, Bethlehem Township and Freemansburg Borough, 6,985 feet. One course reinforced concrete. Certified check, \$1,000.

Northampton County, A-2,149, Stockertown Borough and Palmer Township, 7,930 feet. One course reinforced concrete. Certified check, \$1,500.

Northampton Township, R-2,145, Tatamy Borough and Palmer Township, 7,522 feet. One course reinforced concrete. Certified check, \$1,500.

York County, R-216, A-2,175, Chanceford Township and Lower Chanceford Township, 26,252 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

York County, R-332, A-2,170, East Prospect Borough, Windsor and Lower Windsor Townships, 25,208 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

York County, R-333, A-2,180-Sec. 3, Hope-well Township, 14,787 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$3,000.

York County, R-333, Winterstown Borough, 25,234 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

## Pennsylvania Contracts Awarded

**High School**, Chestnut street and Penn street, Pottstown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Directors, C. H. Kehm, secretary, Pottstown. Reinforced concrete, steel, brick and cut stone, 3 stories, 218x76 feet and 94x92 feet, composition roof, cement and pine floors, hollow tile, roof ventilators, dampproofing, iron stairs, iron work, floor hardener, bond, hollow metal doors, terrazzo work, metal lath, electric light, steam heating. Contracts awarded to: General, William L. Hampton, Pottstown, Pa., \$259,622, \$15,473. Electric, Greenwood Eng. Co., 3314 Lancaster avenue, \$5,533, \$703. Heating, ventilating and plumbing to George A. Faber, Pottstown, Pa., \$38,053, \$3,900, and \$17,243, \$988.

**Store House**, Juniata Shops, Altoona, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick, terra cotta and steel, 3 stories, 60x400 feet, Barrett's on nalcocde roof, cement floors, safety treads, iron work, floor hardener, fire doors, rolled steel sash, metal lath. Contract awarded to West Brothers, Wilkesburg, Pa.

**College Building (add.)**, Cornwells, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Holy Ghost Apostolic College, Cornwells, Pa. Brick, stone, concrete and steel, 3 stories, 43x85 feet, slate roof, slag roof, cement and pine floors, electric lighting, tile and marble work, hollow metal sash and doors, bond, floor hardener, iron work. Contract awarded to B. J. McKenna, 2643 North Hutchinson street.

**Plush Mill Memorial Bridge**, No. 107, near Swarthmore, Pa. Architect, C. W. Brazer, Chester, Pa. (on memorial). Engineer, R. J. Adylotte, Media, Pa. Owners, Commissioners of Delaware County, Media, Pa. Concrete and stone, 330x42 feet, memorial arch, 20x60x75 feet. Contract awarded to Seeds & Derham, 6314 Wissahickon avenue, Philadelphia, \$197,475.

**Residence**, Harrisburg, Pa., \$100,000. Architect, F. G. Hahnestock, Patriot Building, Harrisburg. Owner, Horace B. King, Bergner Building, Harrisburg, Pa. Stone, Indiana limestone, 2½ stories, 84x50 feet, 20x38 feet, tile roof, hardwood floors, vapor heat, electric light, tile and marble work, ornamental plaster. Contract awarded to J. A. McKelvy, 1311 North Front street, Harrisburg, Pa.

**Stores and Dwellings (3)**, Fifth and Chestnut streets, Darby, Pa. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Jules de Waeles, Jr., 5434 Chester avenue, Philadelphia. Brick and stone, 2 stories, 16x47 feet, slag roof, pine floors, hot water heating, electric lighting, tile work, plate glass, iron work. Contract awarded to William R. Graham, 3649 Filbert street, Philadelphia.

**Residence and Garage**, Cynwyd, Pa. Architect, private plans. Owner, John R. Mertz, Franklin Bank Building, Philadelphia. Stone and cut stone, 2½ stories, 42x31 feet, and 1½ stories, 20x16 feet, shingle roof, oak and pine floors, hot water heating, electric light, metal lath, tile work, bond. Contract awarded to J. E. Kearney, 34 South Seventeenth street, Philadelphia.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.



## New Jersey Construction News

**Residence**, Columbia avenue, Cape May, N. J. Architects, Samuel D. Hawley & Co., 30 South Seventeenth street, Philadelphia. Owner, Henry H. Brown, 421 Chestnut street, Philadelphia. Frame, 2 stories, 30x40 feet, shingle roof. Plans in progress.

**Insane Asylum (add.)**, Male Ward and Female Ward, Northfield, Atlantic County, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County, care of Dr. Guin, Northfield, N. J. Brick, 3 stories, 32x80 feet each, slate roof, pine floors, electric light, metal lath, tile work. Plans in progress.

**Residence (alts. and add.)**, South Mt. Vernon avenue, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, Mr. Eisenlohr, Star Printing House, 17 South Mt. Vernon avenue, Atlantic City, N. J. Brick, stucco, 3 stories, 29x16 feet, slag roof, pine floors, electric lighting. Plans in progress.

**Bungalow**, Venice Park, Atlantic City, N. J. Architect, Oscar Schmidt, Guarantee Trust Building, Atlantic City. Owner, Thomas Cairnes, Atlantic City, N. J. Brick, 2 stories, 29x40 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Apartment**, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, structural iron, 3 stories, 35x87 feet, slag roof, pine floors, hot water heat, electric light, tile work, metal lath, hollow tile, rolled steel skylights. Plans in progress.

**Cottages (alts. and add.) to Apartment**, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, Mr. Asbury, care of architect. Brick, 3 stories, 24x31 feet, slag roof, pine floors, electric light, tile work, partitions, plumbing. Plans in progress.

**Mechanical Building**, Camden, N. J. Architect, Henry Boettcher, Lancaster, Pa. Owners, Armstrong Cork Co., Liberty and Mary streets, Lancaster, Pa. Steel frame, 3 or 6 stories, 135x65 feet. Architect taking bids.

**High School**, Gaston street, West Orange, N. J. Architects, Guilbert & Betelle, 546 Broad street, Newark, N. J. Owners, Board of Education, Albert Wrensch, secretary, West Orange, N. J. Brick, steel, limestone, bluestone and concrete, 3 and 1 stories and basement, 230x105 feet, 47x78 feet, slag roof, cement, oak and pine floors, roof ventilators, waterproofing, dampproofing, terra cotta, iron work, iron stairs, bond, rolled steel skylights, tile, marble and terrazzo work, metal lath (heating, lighting and plumbing separate bids.) Owners taking bids due March 26th at 6 P. M.

**Church**, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Christian Science Church, care of Mrs. R. M. Bonham, 29 Atterbury street, Trenton, N. J. Brick and frame, 1 story, 40x80 feet, slate roof, hardwood floors, tile work. Architect taking bids due March 24th.

**Dining Hall**, Morris Plains, N. J. Architects, Department of Institutions and Agencies, Department of Architecture and Construction, Trenton, N. J. Owners, Board of Managers of State Hospital, Morris Plains. Brick, steel, hollow tile and stucco, 5 stories, 30x60 feet, slate roof, composition and slate roof, dampproofing and waterproofing, iron work, iron stairs, fire doors, rolled steel sash and skylights, metal lath, electric light, fan system heating. Architects taking bids due April 2nd.

**High School**, North Wildwood, N. J. Ar-

chitect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board, care of Thomas B. Akarman, North Wildwood, N. J. Brick, 3 stories. Preliminary plans in progress.

**Real Estate and Law Building**, Atlantic avenue, Atlantic City. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, care of Judge Thompson, on premises. Brick, structural steel, 1 story add., 48x95 feet, slag roof, pine floors, heating extension, electric light, tile work, rolled steel skylights. Architect will be ready for bids in one week.

**Residences (4)**, Hermitage avenue, Trenton, N. J., \$20,000. Architect, private plans. Owner, Harold Houghton, 663 Rutherford street, Trenton, N. J. Frame, 2½ stories, 32x14 feet, slate roof, pine floors, steam heat, electric light. Owner will build.

**Residences (10)**, Hillcrest avenue, Trenton, N. J., \$40,000. Architect, Daniel Pulone, 249 Hamilton street, Trenton, N. J. Owner, G. Tuccillo, 165 Anderson street, Trenton, N. J. Brick, frame, 2½ stories, 14x43 feet, slate and tin roof, pine floors, electric lighting. Owner will build.

**Masonic Temple**, Trenton, N. J., \$800,000. Architect, not yet selected. Owners, Masonic Temple Association, care of M. Tiscome, Trent Theatre Building, Trenton, N. J. Competitive plans may be entered by any Masonic architect of Mercer county, N. J., until June 4th.

**Stable (add.)**, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton. Owners, Castanea Dairy Co., 234 North Broad street, Trenton, N. J. Brick, 2 stories, 50x60 feet, slag roof, concrete and wood block floors, electric light, rolled steel sash. Plans in progress.

**Administration Building and Assembly Building**, Elizabeth, N. J. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, American Type Founders Co., R. W. Nelson, president, Communipaw avenue, Jersey City, N. J. Brick, steel and concrete, 1 story and 2 stories, 165x600 feet. Plans completed. Architects ready for sub-bids.

**Residence**, Tomlyn, N. J. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Thomas E. French, Tomlyn, N. J. Stone, 2½ stories, 28x50 feet, slate roof, oak and pine floors, hot water heating, electric lighting, iron work. Bids due as soon as possible.

**Court House (alts.)**, Camden, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Board of Chosen Freeholders, Camden, N. J. Painting, partition alterations, electric work. Lowest bidders: Henry S. Rau, 944 North Eleventh street, Philadelphia, \$3,477, painting. Lawrence R. Hurley, Bulletin Building, \$2,875, alterations. Keller Pike Co., 1213 Face street, Philadelphia, \$728, electric.

**Memorial High School**, Millville, N. J., \$225,000. Architects, Guilbert & Betelle, 546 Broad street, Newark, N. J. Owners, School Board of Millville, Mark S. Brannin, chairman, Millville, N. J. Brick, 2 stories (heating, electric work and plumbing separate bids). Plans in progress. Architects will be ready for bids in six weeks.

## New Jersey Contracts Awarded

**Dairy and Animal Husbandry Building**, New Brunswick, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Dr. Lipman, Agricultural College, New Brunswick,

N. J. Fireproof, 2½ stories, 83x105 feet, slate roof, hardwood and concrete floors, hollow tile, metal lath, (2) elevators, roof ventilators. Contract awarded to G. B. Rule, New Brunswick, N. J., \$134,000. Heating awarded to David Buist, New Brunswick, N. J., \$14,900. Plumbing awarded to David Buist, New Brunswick, N. J., \$8,990. Electric awarded to Jackson Electric, Trenton, N. J., \$7,780.

**Store**, North Broad street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Julius Schafer, 510 Riverside avenue, Trenton, N. J. Brick, steel, reinforced concrete, fireproof, 4 stories, 125x27 feet, slag roof, concrete floors (heating reserved), metal lath, electric work, rolled steel sash and skylights, roof ventilators. Contract awarded to William C. Ehret, 13 West State street, Trenton, N. J.

**Residence**, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Stephen Syracuse, care of architect. Brick, 3 stories, 20x45 feet, tin roof, pine floors, hot water heat, electric light. Contract awarded to General Cont. Co., Atlantic City, N. J.

**Residence (alts.)**, Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Benjamin F. Mechling, Riverton, N. J. General alterations and additions. Contract awarded to Louis F. Lowden, Riverton, N. J.

**Bank (alts. and add.)**, Bridgeton, N. J. Architect, Thomas E. Ash, 1220 Locust street, Philadelphia. Owners, Bridgeton National Bank, Bridgeton, N. J. Reinforced concrete, cut stone and steel, 1 story, 80x20 feet, slag roof, cement floors, tile, marble and terrazzo work, rolled steel sash, bank fixtures, waterproofing, iron work. Contract awarded to Moore & Co., Nineteenth and Cherry streets, Philadelphia.

## Miscellaneous Construction News

**Dye House and Finishing Mill**, Toronto, Canada. Architects, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners, Toronto Carpet Mfg. Co., Toronto, Canada. Reinforced concrete and brick, 3 stories, 140x350 feet, slag roof, cement floors, elevators, iron work, rolled steel sash and skylights, steam heating, electric lighting. Contract awarded to William Steele & Sons Co., 219 North Broad street, Philadelphia. Plans in progress.

## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 15, 1923. Sealed Proposals will be opened in this office at 3 P. M., April 16, 1923, for an ice making and refrigerating plant at the U. S. Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtaining a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Atherholt, Samuel T. ....Narberth, Pa.  
Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.,  
Smith, Edwin A., & Son. 1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. 1015 Frankford Ave., Phila.

## CEMENT WORK.

Croyle, Guy ....Merion Station, Pa.  
Massiah, Frederick. Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co. ....133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## CONSULTING ENGINEERS

Stewart A. Jellett Co. ....1200 Locust St., Phila.

## DAMP-PROOFING.

Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

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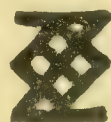
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Vol. XXXVIII, No. 13  
March 28, 1923

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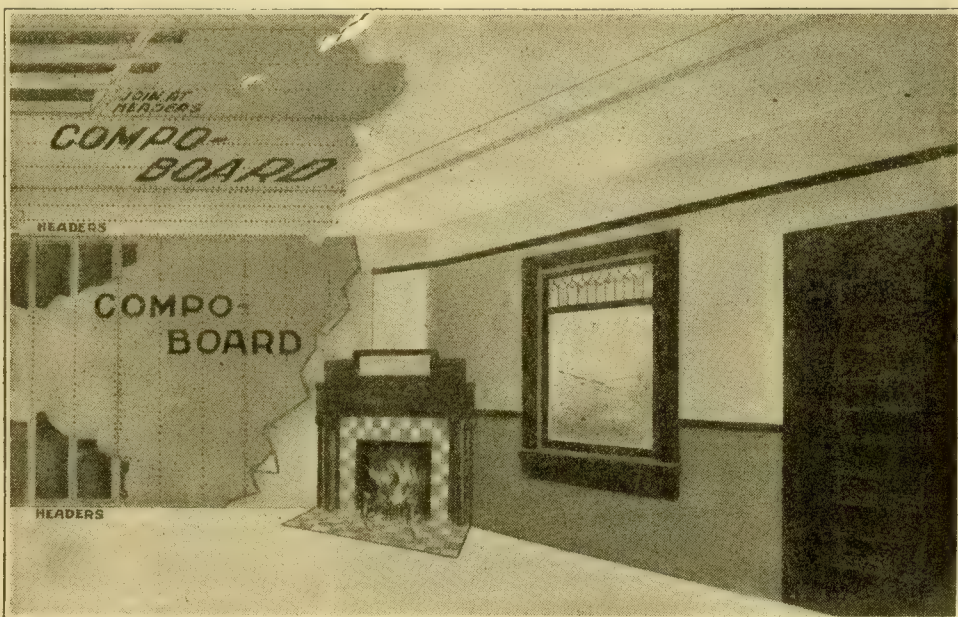
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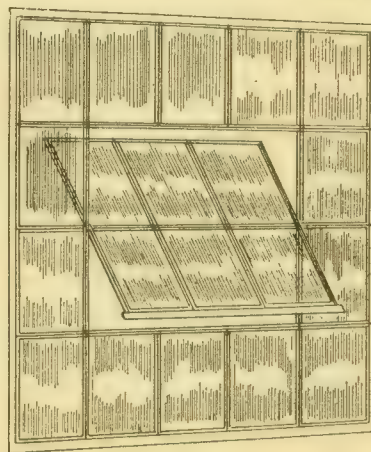
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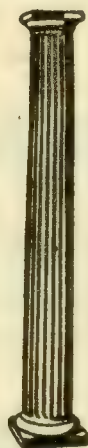
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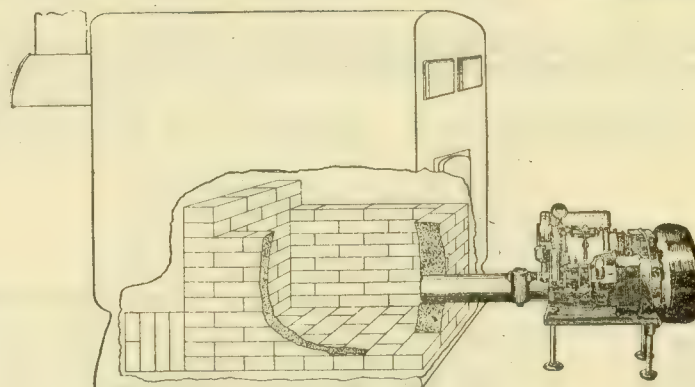
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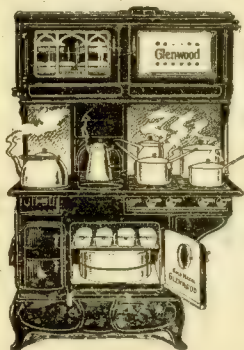
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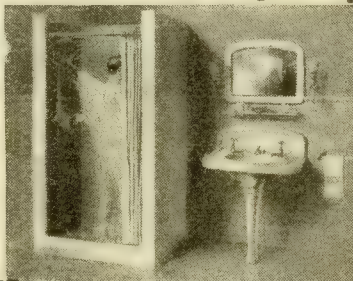
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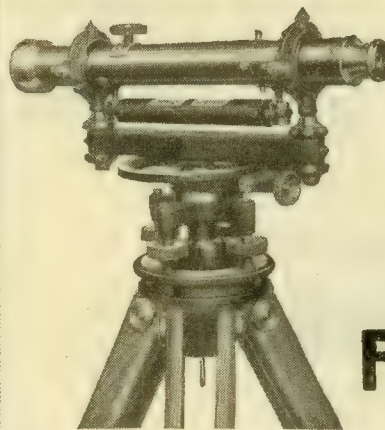
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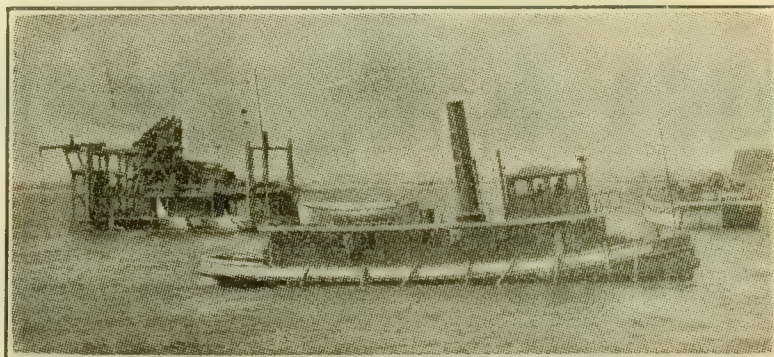
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
VOLUME XXXVIII Engineering and the Building Trades PHILADELPHIA  
Number 13 March 28, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

Joseph M. DeLone..... Secretary and Treasurer

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To all points in United States.....\$5.00 a year

To all points in Canada..... 5.50 a year

To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

Subscriptions not discontinued at expiration  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### GOOD PRACTICE IN PLASTERING\*

*Desirable Standards Suggested by the  
Building Code Committee of the  
United States Department  
of Commerce*

When plaster is to be applied directly to masonry surfaces, these should be rough in texture but not uneven; free from dust, laitance or other loose material which will prevent a good bond between plaster and wall; and particularly from grease, which will cause discolorations. The wall surface should be wet enough so that it does not withdraw water from the plaster, but not so wet as to fill the surface pores and prevent good bond or interfere with hardening. Care in this respect is not so important with lime plasters as with gypsum because lime holds water against suction better than gypsum and because water is not required for hardening lime while it is for gypsum.

Masonry walls may be furred either with clay or gypsum furring tile, which furnishes a plastering surface, or by attaching wood or metal lath properly furred to the masonry. Where walls are likely to be damp, hollow tile furring will be more satisfactory than gypsum.

\*From the Preliminary Report of the Building Code Committee of the United States Department of Commerce.

To prevent undue lateral expansion and contraction of wood lath, which shears and loosens the plaster keys, such lath should not be over  $1\frac{1}{2}$  by  $\frac{3}{8}$  in. in section and key spaces should not be less than  $\frac{3}{8}$  in. for lime plaster or  $\frac{1}{4}$  in. for gypsum plaster. Wood lath should be thoroughly wet when plaster is applied. Lath should be attached to at least three supports, and good practice requires broken joints at least every eighth lath.

Expanded metal lath weighing 2.2 lbs. per sq. yd., or No. 20 wire cloth,  $2\frac{1}{2}$  meshes to the inch, are sufficiently rigid for plaster supports in small dwellings where timbers are spaced not more than 16 in. for walls and 12 in. for ceilings. Longer spans demand heavier lath or special stiffeners. Ends of sheets should be joined over supports, and horizontal edges lapped and laced securely with wire. Continuous sheets bent around corners tend to prevent corner cracks in the plaster. It is recommended that all metal lath be either galvanized or painted.

Gypsum plaster boards are essentially squares of gypsum plaster, coated on both sides with paper, or instead of paper, wood fiber or other vegetable fiber is mixed with the material of which the boards are made. They are usually about 32x36 in. and supplied in thicknesses from  $\frac{1}{4}$  in. up. For small dwellings, where the distance between supports is as given above,  $\frac{1}{4}$  in. board may be used. For greater spans a thicker board is required for

rigidity, but in no case should the board be so thick that its face is not amply covered by the plaster in obtaining the required thickness. Each board should be fastened to at least three supports and all joints perpendicular to supports should be broken. The surface of the board is finished so that plaster adheres readily and should not be wetted when plaster is applied.

While the use of plasterboard is understood at times to result in cracks, the material does not differ greatly in this respect from wood lath and plaster; is much superior to the latter in point of fire resistance; and least equivalent in strength and rigidity.

### Plaster Materials

In a few localities, plaster can be obtained mixed ready to spread on the wall. This practice permits more careful selection of the ingredients, better proportioning, and more thorough mixing than where the plaster is prepared on the job. The use of such plasters is therefore recommended wherever they can be obtained of good quality and at reasonable cost.

For preparation of plaster on the job lime and gypsum average about the same in cost, each having the advantage in some markets. Lime will carry about twice as much sand as gypsum, and this is economical. On the other hand, the setting time of gypsum plasters can be regulated at will, which permits planning

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the work with resultant saving. Gypsum plaster has greater inherent strength and much better fire resistive qualities than lime plaster. Lime plaster can be brought to equal strength by tempering with portland or Keene's cement, and is much more resistant to moisture than gypsum plaster. The latter should not be used in combination with portland cement nor in contact with portland cement concrete. Selection of plasters should be made with reference to local practice, better work usually resulting with familiar materials.

A type of gypsum, manufactured by a new process, has the same plasticity and sand carrying capacity as lime, while it retains the quick set and strength of gypsum.

Gypsum wallboard represents the nearest present approach to manufacture of completed plaster at the factory, ready to be erected in place. It is supplied in sheets 4 ft. wide; in lengths to fit the height of a room; usually  $\frac{3}{8}$  in. thick; and coated on both sides with paper. It should be erected with no side joints between boards and the end joints always over support. If desired it may be painted or otherwise decorated after erection. The joints between boards are usually covered with wood or paper strips. Wall board in place is cheaper than plaster; also inferior as a heat or sound insulator and in fire resistive qualities. Wallboard possesses the essential characteristics of rigidity, strength and finished surface common to plaster, and in addition avoids some of the dangers, such as poor sand, and unskilled mixing and application, which endanger the durability of plaster prepared from materials on the job.

#### *Mixing and Application of Plaster*

Proportions of sand and lime or gypsum should be such as to use as much sand as possible without reducing strength below a necessary minimum. The best proportions will vary with each grade or make of materials. Common practice requires the scratch coat to be 1 part by weight of hydrate lime to  $3\frac{1}{2}$  parts of sand, or 1 part of gypsum to 2 parts sand. Corresponding figures for the brown coat are 1 to 4 for lime and 1 to 3 for gypsum. For best results there proportions must often be varied but the old custom of adding sand by guess until it "feels right to the plasterer" cannot be too strongly condemned.

The finish coat requires a very plastic lime prepared as putty and aged for about two weeks, after which it is mixed with about half its volume of gypsum, applied to the wall and troweled to a smooth hard finish. Much skill and care is needed for success, though the new plastic gypsum noted above, can be used without addition of lime, thereby facilitating the work.

#### *Number and Thickness of Plaster Coats Necessary*

It is entirely possible to produce a pleasing surface on the brown coat, so that no finish coat is required. The exposed aggregate method of making colored concrete is equally applicable to plaster, and requires merely a little care in the selection of the said. If the brown coat is made of gypsum wood-fibred plaster, the wood fibres may be dyed, and exposed by washing the plaster after it has set, to give pleasing effects as to both color and texture. The ordinary brown coat may be rubbed down to a sand float finish, which is satisfactory for some purposes, and may be improved by painting.

If the finish coat is omitted and a strong (rich) gypsum plaster used the customary  $\frac{7}{8}$ -in. thickness for plaster can safely be reduced to  $\frac{5}{8}$ -in. or even less. This would mean considerable economy with slight sacrifice of desirable qualities. Where rigidity is not important two coats are sufficient whether scratch and brown or scratch and finish. Masonry walls and ceilings are plastered almost entirely for decorative reasons and one coat, properly selected, is entirely sufficient if the surface is not too uneven. Under most unfavorable conditions two coats, totaling  $\frac{5}{8}$  in. thickness are all that should be required.

#### *Furring*

In regions subject to low temperature, high winds heavy rains or extreme humidity of considerable duration, furring of solid masonry walls is practically a necessity to avoid unwholesome living conditions caused by damp walls, also the danger of ruining wall decorations.

In arid localities where low temperatures are infrequent, furring may be omitted without serious results, but should be used wherever economy in construction cost is a secondary consideration.

Waterproofing paints or compounds applied to the interior of solid masonry walls help considerably to prevent moisture penetration but have little effect in preventing condensation and make it difficult to bond plaster directly to such treated walls.

Furring is somewhat less necessary on masonry walls of hollow units, since the enclosed air cells help to check transmission of heat and moisture. However, mortar joints running through the wall are found to conduct moisture readily when poorly or incompletely made, and walls having such continuous joints require furring.

Furring a masonry wall lessens its heat conductivity from 15 to 20 percent, thus saving considerable fuel, which saving, of course, continues throughout the life of

(Continued on page 208)

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CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Hospital Building**, East Penn street, Germantown, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Germantown Dispensary and Hospital, Penn near Chew street. Brick, steel, stone and terra cotta. Sketches drawn. Too early for details.

**Hotel Building (alts.)**, Old York road and Church road, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Changing into (4) stores, bank branch and (8) apartments. Brick and stone add., 1 story, 8x85 feet and 14x50 feet. Plans in progress.

**Storehouse**, 803 South Tenth, 802 South Delhi street, Philadelphia, \$5,000. Architect, D. J. Pappano, 1401 South Thirteenth street, Philadelphia. Owner, Lewis Milone, 908 Catherine street, Philadelphia. Brick, 2 stories, irregular size, alterations. Plans completed. Owner will take bids.

**Apartment House**, Broad and Summerville streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, William Goldstein, Eighth and Locust streets, Philadelphia. Brick and stone, 4 stories, electric lighting, steam heat, tile and marble work. Plans in progress.

**Stores and Apartments (3)**, 4620 Woodland avenue, \$32,000. Architect, C. Henry Wilson, 2028 West Berks Street, Philadelphia. Owner, name withheld. Tapestry brick, 2 stories, 58x120 feet, slag roof, hardwood and composition floors, hot water heating, electric light, tile work, cement work, plate glass, metal bulks. Plans in progress.

**Apartment Building**, Fiftieth and Pine streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, concrete, stone and terra cotta. Preliminary plans in progress. Too early for details.

**Residences (14)**, Durham and Crittenden streets, Philadelphia. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 2½ stories, 24½x38 feet, tile, slate roofs, copper flashings, hardwood floors, hot water heating, electric light, tile and marble work. Plans in progress. Owner will be ready for sub-bids in one month.

**Residences (33)**, West side of Warrington avenue, between Fifty-sixth and Fifty-seventh streets, Philadelphia. Architect, private

plans. Owners, Shapiro & Read, Fifty-third and Chestnut streets, Philadelphia. Brick, 2 stories, detail and size undecided. Preliminary plans being drawn.

**Office and Storage Building**, 1808-10 Chestnut street. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, George, Samuel T. and A. B. Freeman, 1519 Chestnut street. Brick, steel, stone and concrete, 6 stories. Plans in progress.

**Store (alts. and add.)**, 1009-1011 Market street, Philadelphia. Architect, Ruben Beard, Shubert Building, Philadelphia. Owners, F. & W. Grant Co., on premises. General interior alterations, removing walls, size of building 40x200 feet, new bulks, maple and terrazzo floors, electric work, sheet metal work, marble and tile work, plate glass, leaded art glass, mill work, painting, plastering, brick work. Plans in progress. Architect will be ready for general bids in ten days.

**Office Building**, Fifteenth and Cherry streets, Philadelphia. Architects, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owner, John L. Steele, 219 North Broad street, Philadelphia. Brick, concrete and steel, 10 stories, 148x100 feet, slag roof, cement floors, elevators, rolled steel sash, tile work, steam heat, electric light. Plans in progress.

**Loft Building**, 616-18 Arch street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Paul Meyers, 1714 Chestnut street, Philadelphia. Brick, concrete and steel, 2 stories. Plans about completed. Architect will be ready for bids in a few days.

**Auditorium**, Northwest Corner Thirty-fourth and Spruce streets, Philadelphia. **Central Power Plant**, Schuylkill River near South Street Bridge. **Administration Building**, Thirty-third and Spruce streets. **Educational Buildings, Dormitories, Women's Club House, Women's College**, Thirty-fourth and Walnut streets, Philadelphia. Owners, University of Pennsylvania Thirty-fourth and Spruce streets, Philadelphia. Work contemplated.

**Building**, Broad and Catherine streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, care of Charles Kahn, Morris Building, Philadelphia. Brick, steel and concrete, 15 stories, 150x225 feet. Plans in progress.

**Residences (23)**, Fifth and Spencer streets,

Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, George W. Schwin, 4533 North Fifth street, Philadelphia. Brick, 2 stories, 16x37 feet, slag and Spanish tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Playground (improvement and equipment)**, Nineteenth street between Oregon and Shunk streets, Philadelphia. City architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Grading, surfacing, cement work, bond, iron fences. Owners will be ready for bids in a few days.

**Residence (alts.) and Garage**, Southwest Corner Twenty-first and Diamond streets. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, G. A. Shearer, care of architect. Brick, 1 story, 24x20 feet, slag roof, cement floors, electric lighting. Architect ready for bids.

**Store and Apartments**, Southeast Corner Fourth and Kauffman streets. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, Joseph Freilich, 226 Bainbridge street, Philadelphia. Brick and steel, 3 stories, 16x61 feet, slag roof, pine floors, hot water heat, electric light, flush bulks, metal ceilings. Architect is ready for bids.

**Residence**, 1716 South Fourth street, Philadelphia. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, Harry Rubin, 4027 Market street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, composition, oak and pine floors, hot water or hot air heat, electric light. Architect is ready for bids.

**Store (alts.)**, 5317 Market street, Philadelphia. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, Harry Goldman, on premises. Brick, 1 story, 16x16 feet, slag roof, pine floors, hot water heat, electric light, rolled steel sash, flush bulks, iron work. Architect ready for bids.

**Apartment and Store**, Southeast Corner Eighteenth and Venango streets. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 18x98 feet, slag roof, oak floors, hot water heat, electric light, metal lath, tile work, metal ceilings, iron work. Architect ready for bids due March 31st.

**Store and Apartments (7)**, 426 North Sixty-

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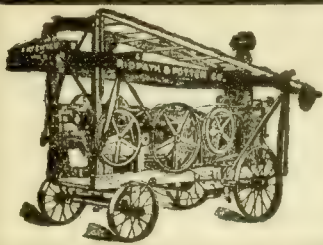
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third street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, S. Small, on premises. General alterations. Plans completed. Owner is taking bids.

**Garage**, 429 West Johnson street, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Mary B. Savery, care of architect. Stone, 1 story, 15x22 feet, slate roof, cement floors, heating and lighting extensions. Architect taking sub-bids.

**Apartment House**, Fifty-fourth and Overbrook avenue, Overbrook, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 27x53 feet, and 1 story, 20x24 feet, slate roof, hardwood and cement floors, hot water heating, electric light, tile work. Plans completed. Architect taking sub-bids due as soon as possible.

**Manufacturing Building**, Hermit lane and Germantown avenue, \$55,000. Architect, Judson F. Vodges, Jr., Lansdowne, Pa. Owners, Woods & Logan, Lena and Earlham streets, Philadelphia. Brick, slow burning, 2 stories, 160x80 feet, slag roof, wood floors, elevators, steam heat (electric light reserved). Architect will build.

**Residences (64)**, Wyoming avenue and Boudinot street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Kaplan, Sixtieth and Pine streets, Philadelphia. Brick, 2 stories, 18x32 feet and 15x39 feet, slag roof, hardwood floors, hot water heating, electric light, tile and marble work. Owner taking sub-bids.

**Twin Residence**, Twelfth and Summerville streets, Philadelphia, \$14,000. Architect, private plans. Owner, T. Wilkinson, 3639 North Ninth street, Philadelphia. Stone, brick and stucco, 2 stories, 36x55 feet. Owner will build and wants sub-bids due as soon as possible on brick and stone work, hot water heat, electric light, plumbing and hardware.

**Residences (6)**, Jackson and Devereaux streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank Dietrick, H and Potter streets, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hot water heating, electric lighting, hardwood and pine floors. Owner is taking sub-bids.

**Residences (7), Store and Apartment**, Fifty-sixth and Diamond streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Hugh Forbes, 5400 Diamond street, Philadelphia. Brick, 2 stories, slate and slag roof, hot water heat, electric lighting, tile and marble work. Plans in progress. Owner will be ready for sub-bids in ten days.

**Stores and Apartments (2), Residences (8)**, Fifty-ninth and Oxford streets. Architect,

E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Herman Beckershoff, 6212 Spruce street, Philadelphia. Brick, 2 stories, 18x32 feet, slag and slate roof, hot water heating, electric lighting, hardwood and pine floors, tile work, cement work. Plans in progress. Owner will take sub-bids.

**Residence and Garage**, Chestnut Hill, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owner, Mrs. Charles Platt, 3rd, 209 East Graver's lane, Philadelphia. Stone and stucco, 2½ stories, 67x20 feet and 18x18 feet, shingle roof, oak and pine floors, tile work, bond, iron work (heating, electric work and plumbing reserved). Architects taking bids due March 29th.

**Parochial School**, Susquehanna avenue and Park avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Our Lady of Mercy Roman Catholic Church, care of Rt. Rev. Monsignor Gerald P. Coghlan, Broad and Susquehanna avenue. Cut stone, steel, concrete and stone, 3 stories, 153x77 feet, tile and slag roof, cement and maple floors, metal ceilings, bond, copper skylights, marble and terrazzo work, metal lath (heating, plumbing and electric work reserved). Architect taking bids due April 2nd at 2 P. M.

**Mill Building**, Southeast Corner Dauphin and Tulip streets. Architect, Isaac H. Francis, Otis Building, Philadelphia. Engineer, William G. Gravel, Otis Building, Philadelphia. Owners, Pollock Huston Co., on premises. Brick, concrete and steel, 4 stories, 100x100 feet, built-up roof, cement floors, roof ventilators, iron work, metal lath, rolled steel sash. Engineer taking bids due April 4th.

**New Toilet Room** in rear of Bailey Building, Lit Brothers. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Painting, glazing, carpentry, mill work, terrazzo floors, safety treads, marble work, plumbing, metal lath, plastering. Architects taking bids due April 4th.

**School Building**, Eighteenth and Moyamensing avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. General construction (heating, lighting and plumbing separate bids). Owners taking bids due April 5th.

**Schools (alts.)**, various locations, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Painting, fire escapes, electric work, machinery guards, etc., and new partitions. Owners taking bids due April 5th.

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delphia. Architect, Peter Kuhn, 3058 North Eighth street. Owner, Gottlob Fellman, 1253 North Front street, Philadelphia. Brick, 1 story, 69x100 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Owner taking bids due March 30th.

**Residence**, Rising Sun and Tabor road, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Dr. W. Harmer Good, 5309 Rising Sun avenue. Brick, cut stone and steel, 2½ stories, 60x35 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, terra cotta, bond. Architects taking bids due April 3rd.

**Residences (46)**, Ardleigh and Woodlawn avenues, Blakemore and Matthews streets, Philadelphia, \$260,500. Owners, Simon & Kaplan, 243 South Sixty-second streets, Philadelphia. Brick, 2 stories, 16x39 feet and 16x36 feet, slag roof, hardwood floors, hot water heat, electric work, tile work. Owners will build.

**Residences (14)**, North side Tabor road, Tenth street to Wagner avenue, Philadelphia, \$78,000. Owner, Carl A. Mayer, 140 Clarkson avenue, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (14)**, South side Eleanor street, West of B, \$67,200. Architect, private plans. Owner, Joseph A. Blair, 222 East Rockland street, Philadelphia. Brick, 2 stories, 16x28 feet, 12x10 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Residence**, West side Borbeck avenue, North of Burholme, \$7,500. Architect, private plans. Owner, P. C. Thornhill, Loney street, Fox Chase, Philadelphia. Frame, 2 stories, 25x37 feet, shingle roof, oak and pine floors, electric lighting. Owner will build.

**Residences (46)**, East and West sides Sixty-fifth street, from Diamond to Malvern streets, Philadelphia, \$380,000. Owners, Marshall Const. Co., 1115 Marlyn road, Philadelphia. Stone and brick, 2 stories, 17x35 feet, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2)**, 7239-41 Oxford street, Philadelphia, \$9,000. Architect, private plans. Owners, Shoemaker Brothers, 5726 North Mascher street, Philadelphia. Frame, 2 stories, 16x50 feet, hardwood floors, hot water heat, electric light. Owners will build.

**Building (add. and alts.)**, 1418 Catharine street, \$9,000. Architect, private plans. Owner, Dr. Edith D. Nefsky, 1527 Arch street, Philadelphia. Brick, 3 stories, 18x36 feet, 18x97 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Residences (22)**, North side Cobb's Creek Parkway, West of Fifty-eighth, \$5,000 each. Architect, private plans. Owner, Hyman Barkan, 1520 South Sixth street, Philadelphia. Brick, 2 stories, 16x34 feet, 12x23 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (16)**, West side Castor road, Dyer to Kenwyn street, and Kenwyn to Pratt, \$10,000 each. Owner, Harry R. Moyer, 2035 East Allegheny avenue, Philadelphia. Brick, 3 stories, 16x30 feet, 19x16 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will build.

**Residence**, West side Montour street, South of Cottman, \$5,000. Architect, private plans. Owner, B. C. Rosander, 4622 Hurley street, Philadelphia. Frame, 2 stories, 19x36 feet, hardwood floors, hot water heat, electric light. Owner will build.

**Shop (add.)**, Northwest Corner Marlborough and Allen streets, \$2,000. Architect, private plans. Owner, J. Sanderson, 415 Richmond street, Philadelphia. Brick, 1 story, 30x28 feet, slag roof, pine floors. Owner will build.

**Residences (4)**, South side Grovers avenue, West of Eighty-fourth street, \$3,000 each. Architect, private plans. Owner, Joseph Espisota, Eighty-fourth and Grovers avenue, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, pine floors, electric light, hot air heat. Owner will build.

**Residence (add.)**, 337 South Camac street, Philadelphia, \$2,500. Architect, private plans. Owner, Frank E. Wallace, 1909 West Tioga street, Philadelphia. Brick, 1 story add., 15x30 feet, slag roof, oak and pine floors, electric light. Owner will build.

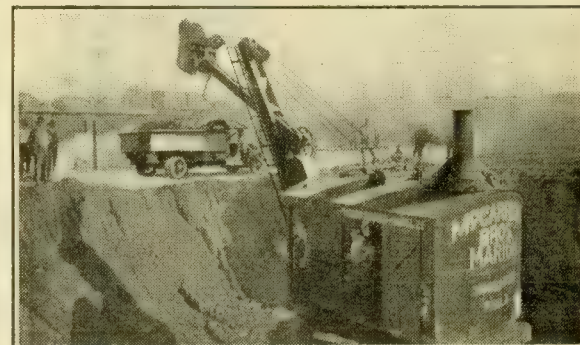
**Residences (2)**, 2362-64 Duncan street, Philadelphia, \$3,500. Architect, private plans. Owner, Stanley Dombkowski, 2385 Orthodox street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (16)**, North side Foust street, Jackson to Cottage, \$3,500 each. Architect, private plans. Owners, Louis Muget & Bro., 5928 Hegerman street, Philadelphia. Brick, 2 stories, 15x46 feet, slag roof, pine floors, hot water heat, electric light. Owners will build.

**Laundry (alts.)**, 531-33 North Forty-first street, Philadelphia, \$8,000. Architect, private plans. Owner, James Kershaw, on premises. General alterations. Owner will build.

**Residences (20)**, Allengrove and Large streets, and Garages (2), 1130 and 1131 Allengrove street, \$141,700. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, (10) 16x43 feet, (10) 18x35 feet, garages, 1 story, 12x20 feet, hardwood and cement floors, slag roof, electric lighting. Owner will build.

**Residences (2)**, Northeast Corner Fairhill and Cheltenham avenue and Fifth streets, Philadelphia, \$10,000 each. Owner, E. Clifford Durell, 1713 North Twenty-fourth street,



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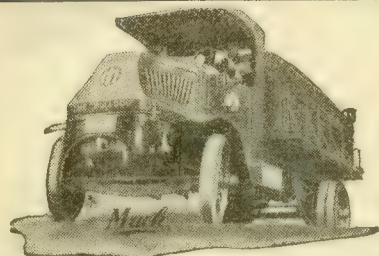
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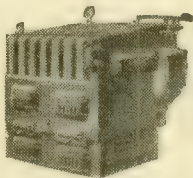
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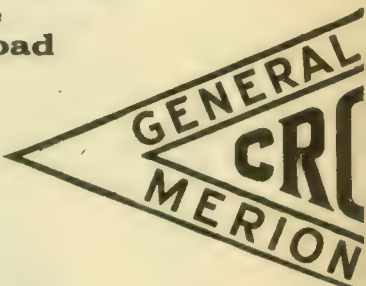
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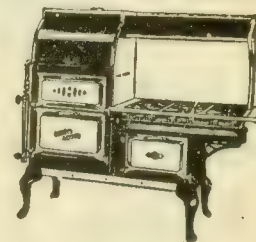
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Philadelphia. Brick, 2 stories, 41x25 feet, 6x12 feet, hardwood floors, tile work. Owner will build.

**Residence**, 4928 Lancaster avenue, Philadelphia, \$7,000. Architect, private plans. Owner, Pasquale Antonucci, 4926 Lancaster avenue. Brick, 2 stories, 20x22 feet, 17x52 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (7)**, Forty-first and Parkside avenue, Philadelphia, \$43,300. Architect, private plans. Owner, J. Rottman, 4252 Parkside avenue, Philadelphia. Brick, various sizes, slag roof, hardwood floors, electric lighting, tile work. Owner will build.

**Residences and Garages (14)**, South side Rockland, East of C, \$4,500 each. Architect, private plans. Owner, Isadore Finestine, 1018 East Tioga street, Philadelphia. Brick, 2 stories, 16x30 feet, 11x11 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (2)**, North side Disston, East of Algood, \$4,500 each. Architect, private plans. Owner, Roy H. Lippincott, 6708 Jackson street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (10)**, Rosehill and Rockland streets, \$51,000. Architect, private plans. Owners, T. P. & P. J. McFarland, 2409 East Allegheny avenue. Brick, 2 stories, 16x40 feet, (8) 15x29 feet, 12x11 feet, slag roof, oak and pine floors. Owners will build.

**Residences (10)**, Sixth and Loudon streets, Philadelphia, \$51,200. Architect, private plans. Owner, R. Wallace Troemner, 561 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 18x32 feet, 16x39 feet, and (7) 15x30 feet, 12x9 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Residence**, Southwest Corner B and Eleanor streets, Philadelphia, \$10,000. Architect, private plans. Owner, Joseph A. Blair, 222 East Rockland street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, South side Eleanor street, West of B, \$8,500. Architect, private plans. Owner, Joseph A. Blair, 222 East Rockland street, Philadelphia. Brick, 2 stories, 16x42 feet, 12x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Open Storage Shed**, Wissahickon avenue and Juniata street, \$3,000. Architect, private plans. Owners, Conkling & Armstrong Terra Cotta Co., premises. Frame, 1 story, 150x60 feet. Owners will build.

**Residence**, Northwest Corner Belgrade street and Westmoreland, \$2,500. Architect, private plans. Owner, Fred C. Ebner, 2403 East Somerset street, Philadelphia. Brick, 2 stories, 15x44 feet, hot water heating, electric lighting. Owner will build.

**Shop**, Southwest Corner Paoli avenue and Umbria street, Philadelphia, \$2,500. Architect, private plans. Owners, Robinson Iron & Steel Co., on premises. Iron, 1 story, 52x47

feet, cement floors. Owners will build.

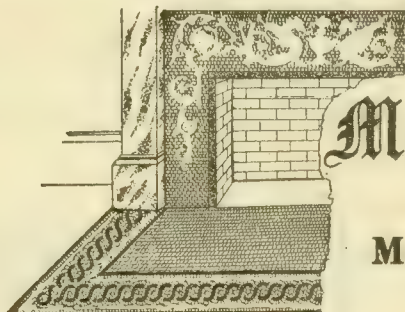
**Storage**, East side Thirteenth street, North of Pike street, \$2,500. Owners, Charles F. Felin & Co., York road and Butler street. Concrete, 1 story, 20x20 feet, concrete roof, cement floors. Owners will build.

**Store and Apartments (alts. and add.)**, Sixteenth and Pine streets. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick and stone, 3 stories, 14x40 feet, slag roof, oak floors, hot water heating, electric lighting, tile and marble work. Plans in progress. Architect will be ready for bids April 15th.

**Parish House and Parsonage**, Wistar street and Wyncote avenue, Germantown, Philadelphia. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Advocate Lutheran Church, on premises. Stone, brick and concrete, 3 and 1 stories, 50x39 feet and 50x60 feet, slate roof, pine floors, steam heating, electric lighting, metal lath, tile work, bond, iron work. Architect taking bids due April 2nd.

**Store and (5) Apartments**, Thirteenth and Panama streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Jules Junker, 211 South Thirteenth street, Philadelphia. Architect taking bids due March 31st at 10.30 A. M.

**Residences (12)**, Ditman and Tyson streets, Philadelphia, \$4,200 each. Architect, private plans. Owner, John Stevenson, 7014 Hegerman street, Philadelphia. Brick, 2 stories, 16x42 feet, hardwood and pine floors, electric lighting. Owner will build.



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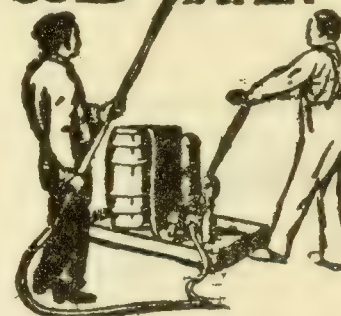
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Both Phones



**Garage**, 5901 Overbrook avenue (rear), Philadelphia, \$3,500. Architect, private plans. Owner, Daniel W. Simpkins, on premises. Brick, 1 story, 24x24½ feet, slag roof, cement floor, electric lighting. Owner will build.

**Store and Office Building**, Northwest Corner Twenty-first and Walnut streets. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Fried & Fishman, 605 South Tenth street, Philadelphia. Brick, stone and cut stone, 2 stories, 173x36 feet, slag roof, maple floors, dampproofing,

iron work, steam heating, electric lighting, metal lath, tile and marble work. Architect taking bids due March 30th at noon.

**Store and Office Building**, Northeast Corner Orthodox street and Frankford avenue. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, William Thomas, care of architect. Brick, reinforced concrete, steel and cut stone, 3 stories, 120x21 feet, slag roof, composition and maple floors, metal lath, terrazzo and marble work, iron work. Architect taking bids due April 5th.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Building**, Northwest Corner Thirty-third and Arch streets, Philadelphia, \$300,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Kraftstow & Titelman, Juniper and Vine streets, Philadelphia. Reinforced concrete, brick, artificial stone (cut) and steel, 7 stories and basement, 74x190 feet and 45x73 feet, slag roof, concrete floors, roof ventilators, dampproofing, iron work, iron stairs, floor hardener, cold water paint, mail chute, bond, peelee, kala-mein and hollow metal doors, rolled steel sash and skylights, tile and marble work, metal lath. Contract awarded to William R. Dougherty, 1610 Sansom street.

**Manufacturing and Office Building**, Northwest Corner Fourth and Arch streets. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Ketterlinus Lith. Mfg. Co., on premises. Brick, steel, terra cotta, cut stone and reinforced concrete, 8 stories and basement, 55½x140 feet, slag roof, cement and maple floors, roof ventilators, dampproofing, iron work, iron stairs, floor hardener, bond, fire doors, copper skylights, rolled steel sash, tile and marble work, demolition (heating, electric work, elevators and sprinklers reserved). Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**Office Building**, 1011 Walnut street, Philadelphia, \$40,000. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, H. C. Hollinger, The Longacre, Philadelphia. Brick, concrete, steel and limestone, 4 stories, 117x22 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile

work. Contract awarded to William S. Gore, 6 North Forty-first street, Philadelphia.

**Store and Office Building (alts.)**, 902 Chestnut street. Architect, Eugene Stopper, 10 South Eighteenth street, Philadelphia. Owners, Yawman & Erbe, 1017 Chestnut street, Philadelphia. Brick, reinforced concrete and steel, roof repairs, steam heat, electric light, metal lath, tile work, marble and terrazzo, rolled steel sash, fire doors, elevators, iron work. Contract awarded to Doyle & Co., 1519 Sansom street.

**Apartment House (alts. and add.)**, Forty-sixth and Spruce streets. Architects, Neubauer & Supowitz, 929 Chestnut street. Owners, Traub Brothers, on premises. Brick, reinforced concrete and steel, 3 stories, 95x29 feet, slag roof, oak and composition floors, controlled heating, electric light, metal lath, tile and marble work, iron work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia, but not yet signed.

**Squash Court**, Manheim and Morris streets, Philadelphia. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owners, Germantown Cricket Club, on premises. Stone, brick and hollow tile, 26x51 feet, slate roof, skylight, marbloid floor, electric light. Contract awarded to Frank G. Stewart, 1619 Sansom street.

**Residences (2)**, Tyson and Jackson streets, Tacony, \$15,000. Architect, private plans. Owner, I. S. Shreve, 3703 Longshore street, Tacony. Brick, 2½ stories, 50x30 feet, oak and pine floors, tile work, (heating, plumbing, electric work, slag and asbestos roof re-

served). Contract awarded to S. S. Wilmer, 3211 Comly street, Philadelphia.

**School**, 1616-18 East Berks street, Philadelphia, \$92,000. Architect, Louis H. Giele, 1123 Broadway, New York. Owners, St. Laurentius' Roman Catholic Church, Rev. D. Kraus, on premises. Stone and brick, 3 stories, 37x115 feet, 78x36 feet, slag roof, maple floors, electric lighting, steam heating. Contract awarded to John McShain, 1610 North street, Philadelphia.

**Garage (alts. and add.)**, 342 West Price street, Philadelphia, \$5,000. Architect, private plans. Owners, Germantown Motor Sales Co., Wagner below Price street. Brick, 1 story, 31x56 feet, slag roof, cement floors. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

**Factory**, Southwest Corner Camac and Panama streets, Philadelphia, \$20,000. Architect, private plans. Owners, Alfred Smith & Co., Southwest Corner Thirteenth and Cherry streets, Philadelphia. Brick, 4 stories, 26x21 feet, 28x13 feet, slag roof, electric lighting, steam heating. Contract awarded to E. E. Hollenback, 1804 Brandywine street.

**Residences (2)**, 7324-26 Claridge street, Philadelphia, \$9,000 total. Architect, private plans. Owner, Charles Otte, 7314 Tabor road, Philadelphia. Brick, 2 stories, 15½x47 feet, slag roof, oak and pine floors. Contract awarded to Charles Freeman, 7320 Bingham street, Philadelphia.

**Garage**, 1722-24-26 North Uber street, Philadelphia, \$11,000. Architect, private plans. Owner, William Flanders, Southwest Corner Nineteenth and Turner streets. Brick, 2 stories, 44x48 feet, 44x59 feet, slag roof, cement floors, electric lighting, steel sash. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

**Factory (alts.)**, West side Schuylkill Canal, South of Gay street, Philadelphia, \$8,000. Architect, private plans. Owner, George W. Davis, Inc., 4416 Main street, Philadelphia. General fire repairs, slag roof, brick work, carpentry. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Residence**, North side Dorset street, West of Boylan street, \$8,000. Architect, private plans. Owner, George Ottinger, 6727 Musgrave street, Philadelphia. Brick, 2 stories, 18x42 feet, slag roof, oak and pine floors. Contract awarded to Stokes Brothers, 6723 Musgrave street.

**Residences (2)**, 7106-08 Cresheim road, Philadelphia, \$7,000 each. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia.

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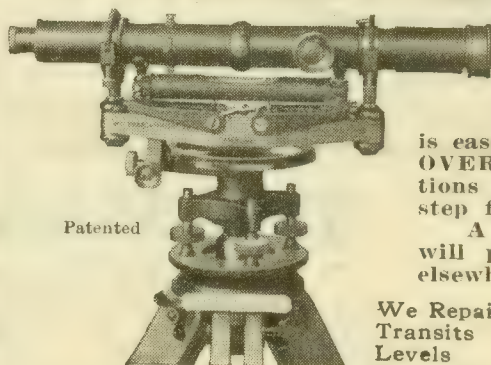
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Owner, A. R. Smith, care of architect. Brick, 2 stories, 19x45 feet, hardwood floors, electric light. Contract awarded to H. P. Werner, 3245 Germantown avenue.

**Residence (add.),** 1507 Foulkrod street, Philadelphia, \$6,000. Architect, private plans. Owner, John Winnerts, on premises. Brick, 3 stories, 18x25 feet, slag roof, hardwood floors. Contract awarded to Buzby & Probert, 1658 Unity street.

**Residence and Store (alts. and add.),** 2503 South Broad street, \$4,950. Architect, private plans. Owner, S. Weiss, on premises. Brick, 1 story, 3x14 feet, 2 stories, 12x12 feet, general alterations. Contract awarded to Negin & Klynaw, 2440 South Reese street, Philadelphia.

**Residence and Store (alts.),** 1204-06 Callowhill street, \$6,000. Architect, private plans. Owner, H. Gelderman, on premises. Carpentry, brick work, general alterations. Contract awarded to Max Kotz, 5948 Callowhill street, Philadelphia.

**Two-Family Residence (add.),** 1327 West Loudon street, \$4,500. Architect, private plans. Owner, Lyle Rickard, Southeast Corner Eleventh street and Sixty-fourth avenue, Philadelphia. Brick, 1 story, 10x15 feet, slag roof, electric work. Contract awarded to Northern Const. Co., 515 Fisher's avenue.

**Residences (6),** West side Eighty-fourth street, South Erwig avenue, \$3,000. Architect, private plans. Owners, Dora and Frank Thompson, 8400 Tinicum avenue, Philadelphia. Brick, 2 stories, 16x24 feet, 12x10 feet, slag roof, pine floors, electric lighting. Contract awarded to Garrett & Smith, 3712 Redmond street.

**Residence and Store (repairs),** 5038 Baltimore avenue. Architect, private plans. Owner, Samuel Knee, 135 South Forty-ninth street, Philadelphia. General fire repairs. Contract awarded to B. Shestack, 6010 Trinity Place, Philadelphia.

**Office Building (alts.),** 112 North Broad street, \$4,000. Architect, private plans. Owners, Fidelity Mutual Life Co., on premises. General alterations, concrete work, plastering. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Residence and Store (alts. and add.),** Twenty-first and Fitzwater streets, \$4,000. Architect, private plans. Owner, John Elias, 2059 Fitzwater street, Philadelphia. Brick, 1 story, 16x10 feet, slag roof, general alterations. Contract awarded to Co-operative Builders, 112 North Sixtieth street.

**Residence (add.),** 5917 West Girard avenue, Philadelphia, \$3,700. Architect, private plans.

Owner, John F. Sunderland, 5919 West Girard avenue, Philadelphia. Brick, 1 story, 6x29 feet, 16x10 feet, slag roof, pine floors. Contract awarded to Thomas H. Pratt, 127 South Ruby street.

**Residence and Store (add.),** 600 South Fifty-sixth street, \$3,000. Architect, private plans. Owner, Louis Keyolie, Fourth and McKean streets, Philadelphia. Brick, 1 story add., 16x17 feet, slag roof, electric light. Contract awarded to Max Burkner, 2530 South Marshall street.

**Residence and Store (alts. and add.),** 912 South Seventh street, \$2,800. Architect, private plans. Owner, Samuel Fenbar, on premises. Brick, 1 story, 16x8 feet, general alterations. Contract awarded to Sam Yudofsky, 2023 South Eighth street, Philadelphia.

**Building (alts.),** Southwest Corner D and Indiana avenue, \$2,595. Architect, private plans. Owners, John Maneely & Co., 247 North Twelfth street, Philadelphia. General fire repairs. Contract awarded to George P. Clayton, 1817 North Twentieth street.

**Residence (add. and alts.),** York road and Courtland street. Architect, private plans. Owner, M. Sklar, on premises. Brick, 1 story add., 3x42 feet, slag roof, general alterations. Contract awarded to M. Satler, 1236 North Mascher street, Philadelphia.

**Garage,** 226 East Haines street, Philadelphia, \$2,500. Architect, private plans. Owner, A. Piantim, on premises. Brick, 1 story, 19x116 feet, slag roof, cement floors. Contract awarded to John H. Frith, 5619 Osceola street.

**Building (alts. and add.),** 2700 West Fletcher street, \$2,300. Architect, private plans. Owner, Samuel Rubin, 1743 North Thirty-first street, Philadelphia. Brick, 1 story add., 10x16 feet, general alterations. Contract awarded to Carl Rodgers, 4610 D street, Philadelphia.

**Residence (alts. and add.),** 1513 South street, Philadelphia, \$2,000. Architect, private plans. Owner, J. H. Whitehead, on premises. General alterations and additions. Contract awarded to Warren Brothers, 1125 Brown street, Philadelphia.

**Residence and Store (add. and alts.),** 2023 North Second street, \$3,800. Architect, private plans. Owner, Morris Stein, 843 North Franklin street, Philadelphia. Brick, 1 story, 15x14 feet, general alterations. Contract awarded to Hugo Briebl, 4919 North Fourth street, Philadelphia.

**Residences (2),** 4543-45 Bermuda street, Philadelphia, \$3,500 each. Architect, private

plans. Owner, W. Kolodzieski, 4710 Stiles street, Philadelphia. Brick, 2 stories, 16x12 feet, 16x10 feet, slag roof, pine floors. Contract awarded to Alex. Jastrzembki, 4490 Almond street.

**Residence and Store (alts.),** 4655 Frankford avenue, \$4,300. Architect, private plans. Owner, J. Fisher, 4450 Frankford avenue, Philadelphia. General alterations. Contract awarded to W. J. Cowell, 5712 Crittenden street.

**Shop (alts.),** Northeast Corner Thirtieth and Thompson streets, \$4,500. Architect, private plans. Owners, National Umbrella Co., on premises. Carpentry, mill work, general alterations. Contract awarded to George W. Whiteman, 403 East Penn street.

**Residence and Store (add.),** 1261 Cheltenham avenue, \$4,282. Architect, private plans. Owner, A. Callen, 525 Duncannon street, Philadelphia. Brick, 2 story add., 14x20 feet, slag roof, oak floors. Contract awarded to S. S. Billingsley, 1230 East Cheltenham avenue.

**Residence and Store (add.),** Northeast Corner Buist and Dewey, \$3,000. Architect, private plans. Owner, A. Korbeck, 2615 Pershing street, Philadelphia. Brick, 1 story, 16x12 feet, add., oak floors, electric light. Contract awarded to Carl Jacobs, 1313 North Twelfth street, Philadelphia.

**Warehouse,** 5626-30 Summer street, Philadelphia, \$3,000. Architect, private plans. Owners, West & Ridley Co., 5215 Market street, Philadelphia. Brick, 2 stories, 60x115 feet, pine floors, slag roof. Contract awarded to Felix Claro, 5439 Webster street, Philadelphia.

**Warehouse (alts.),** 144-46 North Fifth street, Philadelphia, \$2,500. Architect, private plans. Owner, S. Walter, on premises. General alterations. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

**Residences (2) (add.),** 2012-14 Alter street, Philadelphia, \$2,000. Architect, private plans. Owner, A. McTavish, 1509 Pine street, Philadelphia. Brick, 2 stories, 12x14 feet, slag roof, pine floors. Contract awarded to Joseph S. Sellers, 2022 Alter street.

**Residence (add.),** 6141 Oxford street, Philadelphia, \$2,000. Architect, private plans. Owner, J. R. Van Rodin, on premises. Brick, 2 stories add., 9x9 feet, slag roof, pine floors. Contract awarded to William C. Nester, 2901 North Sixty-third street, Philadelphia.

**Residence and Store (alts.),** 814 South Fourth street, \$2,000. Architect, private plans. Owner, Jacob Mogel, on premises. General repairs. Contract awarded to Bass Co., 713 Walnut street, Philadelphia.

**School,** Knorr, Cottage and Gillespie streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Reinforced concrete, brick, granite and steel, 3 stories, 171x148 feet, composition and tile roof, cement, pine and maple floors, safety treads, metal weather strips, waterproofing, terra cotta, iron stairs, work, bond, hollow

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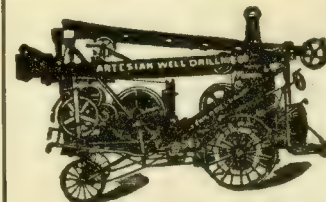
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metal doors and sash, rolled steel skylights, tile and marble work, metal lath. Contracts awarded: Cramp & Co., Denckla Building, \$457,937. Heating, McClintock Bros., 5216 Webster street, \$45,679. Plumbing, Daniel Keating, 2042 Rittenhouse street, \$21,977. Ventilating, William Howlett Co., Fifth and Columbia avenue, \$1,443. Electric, Walker Kepler, 531 Chestnut street, \$19,275.

**Store Building**, 1126 Chestnut street, Philadelphia. Architects, Buchman & Kahn, 56 West Forty-fifth street, New York City. Owners, Oppenheim, Collins & Co., 1207 Chestnut street, Philadelphia. Brick, stone and steel, 6 stories, 48x230 feet, slag roof, hardwood and concrete floors, hollow tile, elevators, steam heating, electric light, metal lath, tile

and marble work, fire doors. Contract awarded to Charles A. Cowen & Co., 30 East Forty-second street, New York City.

**Residence**, East side Welsh road, South of Dewees, \$4,880. Architect, private plans. Owner, Annie E. Gastley, 1937 Welsh road, Philadelphia. Frame, 2 stories, 26x36 feet, hardwood floors, electric light. Contract awarded to R. K. Satterfield, 2860 North Mutter street.

**Residence and Store (alts. and add.)**, 5113-15 Market street, \$4,000. Architect, private plans. Owner, Samuel Klein, 512 North Second street, Philadelphia. Brick, 1 story, 16x3 feet, slag roof, pine floors, electric work. Contract awarded to C. Scharble, 3545 North Fifth street, Philadelphia.

Lee, 32 South Seventeenth street, Philadelphia. Owners, Guaranty Trust & Safe Deposit Co., Frederick B. Moser, chairman Building Committee, Shamokin, Pa. Granite, marble and bronze, 1 story, 50x95 feet, slag roof, steam heating, electric lighting, tile work. Architect ready for bids due April 10th.

**Parish House**, Lansdowne, Pa., \$50,000. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, St. John's Episcopal Church, care of architect. Stone, 2 stories, 45x100 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids due April 3rd.

**Machine Shop**, Juniata Shops, Altoona, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 1 story, 691x346 feet, Barrett roof, pine and cement floors, terra cotta, iron work, (50) rolled steel skylights. Owners taking bids due March 29th.

**Residence**, Windber, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Berwind Coal Co., Commercial Trust Building, Philadelphia. Frame, 2½ stories, 38x26 feet, composition slate roof, hardwood floors, steam heat, electric lighting. Owners will take bids from local contractors.

**Residence and Garage**, Easton, Pa. Architect, A. D. Chidsey, Jr., 341½ Northampton street, Easton. Owner, George Hellick, 215 Ferry street, Easton, Pa. Stone, 2½ stories, 36x38 feet, slate roof, hardwood and concrete floors, vacuum heat, electric light, metal lath, tile work. Architect taking bids due April 7th.

**Residence**, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owner, Fred B. Frank, Jr., Bath, Pa. Brick, 3 stories, irregular size, tile roof, hardwood floors, electric light, tile work. Architects taking bids due March 29th.

**Residence**, Drexel Hill, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Dr. M. A. Roberts, 1142 South Eleventh street, Philadelphia. Frame and stucco, 2½ stories, 48x42 feet, shingle roof, pine and oak floors, hot water heat, electric light, tile work. Architects taking bids due March 31st.

**Residence (alts. and add.) and Garage**, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, T. P. Ward, Ridley Park, Pa. Frame, 2½ stories, 24x25 feet, and 1½ stories, 36x23 feet, shingle roof, oak, pine and cement floors (heating, lighting and plumbing reserved). Architects taking bids due March 30th.

**Residence (18)**, Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Christian F. Hansen, East Lansdowne, Pa. Brick, hollow tile, frame and stucco, 2 stories, 16x40 feet, shingle roof, hot water heating, electric light, hardwood and pine floors. Owner is taking sub-bids.

**Church**, Mt. Carmel, Pa. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, care of Rev. M. Mayer, C. S. S. T., Mt. Carmel, Pa. Cut stone, castone and steel, 1 story, 57x101 feet, slate roof (alternate Spanish

## PENNSYLVANIA

# Construction News

**Building**, Easton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, L. O. O. M., Easton, Pa. Plans about completed. Architect will be ready for bids in about ten days.

**Theatre (rebuilding)**, Norristown, Pa. Architects, Hoffman Henon Co., Finance Building, Philadelphia. Owners, Grand Opera House, care of A. & L. Sablosky, Norristown. Brick, 2 stories, fire repairs. Plans in progress. Architect will be ready for bids in three weeks.

**Residence (alts. and add.)**, Wayne, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Dr. Galloway C. Morris, Devon, Pa. Stone and frame. Plans in progress.

**Residence (alts. and add.)**, Haverford, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, Erskine M. Smith, Ardmore, Pa. Stone and frame, 2½ stories, 34x92 feet. Plans in progress.

**Bank Building (int. alts.)**, Lock Haven, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Clinton Trust Co., W. S. Harris, president, Lock Haven, Pa. Cut stone work, brick work and stone work, bronze work, vault and vault door, plastering, painting, tile, marble and terrazzo, bank screens. Plans in progress. Architects will be ready for bids in two weeks.

**Residences (30)**, Easton, Pa. Architect, Willis A. Hall, Post Office Building, Upper Darby, Pa. Owner, J. H. Anderson, Easton, Pa. Stone, brick and stucco, 2½ stories, various sizes, about 32x45 feet, slate, tile and shingle roofs, pine and hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Parochial School**, Cheltenham, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of the Presentation of B. V. M., Rev. James J. Gibbons, Cheltenham, Pa. Hollow tile and plaster, 2 stories, 50x70 feet, slag roof, steam heating, electric lighting. Plans about completed. Architect will be ready for bids in one week.

**Elks' Home (alts. and add.)**, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, B. P. O. E., 31 South Eighth street, Allentown, Pa. Brick, 4 stories add., 22x44 feet, hardwood floors, electric lighting, tile and marble work, general interior alterations, iron work, ornamental plaster. Will be ready for bids in ten days.

**Bungalow**, South Whitehall Township, Pa. Architect, Charles Grossart, 603 Hamilton street, Allentown, Pa. Owner, Daniel Heminger, care of architect. Brick, 2 stories, 28x32 feet, shingle roof, pine floors, tile work,

hot water heat, electric light. Plans in progress.

**Church**, North Eighth street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Bethel Mennonite Brethren, care of Rev. Bryan Musselman, 819 Gordon street, Allentown. Brick, 1 story, basement and balcony, 100x54 feet, hardwood floors, Webster system heating, electric lighting, rolling partitions. Plans in progress. Owners will build.

**Elks' Club**, Williamsport, Pa. Architect, F. Arthur Rianhard, Williamsport, Pa. Owners, B. P. O. E., Howard R. Davis, chairman Building Committee, Williamsport. Brick, concrete, limestone and steel, 3 stories and basement, 145x93 feet, asbestos asphalt roof, marblod, cork, cement, oak and pine floors, hollow tile, elevators, metal weather strip, waterproofing, iron work and stairs, bond, fire doors, tile and marble work, metal lath, electric lighting, steam heat. Architect taking bids due March 31st.

**Residences (10)**, Easton, Pa. Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa. Owners, Easton Development Co., Easton, Pa. Brick and frame, 2 stories, 22x32 feet, 25x40 feet, pine floors, hot air heat, electric light, various roofing. Owners will build.

**Residence**, York road, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mrs. G. Harting, 4147 Germantown avenue. Stone, 2½ stories, electric light, tile work, slate roof, hardwood floors. Architect taking bids due April 4th at noon.

**Rebuilding Coal Yard** of J. J. Nooton & Son, Markley and Washington streets, Norristown, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Stony Creek R. R. Co., care of P. & R. R., Reading Terminal, Phila. Reinforced concrete footing, 164 ft. long, 8 in steel coal trestle, iron gates and fences, belgian block paving, bond. Owners taking bids due April 4th.

**Bank Building and Office Building**, Shamokin, Pa., \$175,000. Architect, William H.

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tile), maple floors, electric lighting, metal lath, tile and marble work, bond, iron work (heating reserved). Architects taking revised bids due April 2nd.

**Sanitary Sewers**, Pottstown, Pa. Engineers, Gannett, Seelye & Fleming, Inc., No. 1 North Market Square, Harrisburg, Pa. Owners, Borough of Pottstown, care of M. L. Seasholtz, Secretary of Council, Pottstown, Pa., George A. Wahl, chairman of Sewer Committee. Excavation, vitrified sewer pipe, 4 inches, 6 inches, 8 inches, 10 inches, 12 inches, 15 inches, 18 inches, respective lengths, 25,000 feet, 19,000 feet, 1,944 feet, 330 feet, 2,350 feet, 1,310 feet, 1,425 feet. Owners taking bids due April 7th at 2 P. M.

**Store Building (extension)**, Lock Haven, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Clinton Trust Co., W. S. Harris, president, Lock Haven, Pa. Brick, 1 story, 18x40 feet, slag roof, concrete floors. Owners will build.

**Sanitarium**, Scranton, Pa. Architect, D. H. Morgan, Connell Building, Scranton, Pa. Owners, Lackawanna County, Court House, Scranton, Pa. Plans in progress.

**Bungalow**, South Whitehall Township, Lehigh County, Pa. Architect, private plans. Owner, Mr. Earl Heinbacher, South Whitehall Township, Pa. Brick, 1½ stories, 32x38 feet, asbestos shingle roof, pine floors, electric light. Owner will build.

**Residence**, Golf House road, Haverford, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Joseph M. Pugh, Morris Building, Philadelphia. Stone and stucco, 2½ stories. Architect taking bids.

## Pennsylvania Contracts Awarded

**Grade School**, St. Cloud and Walnut streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Allentown School Board, Allentown, Pa. Fireproof, 3 stories, 38x200 feet, flat roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, hot air heat, electric light, metal lath, tile work, skylights, iron stairs, ornamental iron work. Contract awarded to William H. Gangwere & Co., Allentown, Pa.

**Residence**, Wynnewood, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Brick and plaster, 2½ stories, 52x26 feet, irregular, tile roof, oak and pine floors, tile work, bond, iron work, electric light (plumbing and heating reserved). Contract awarded to Charles C. Pace, Merion, Pa.

**Bank**, Fifth and Market streets, Chester, Pa. Architect, T. M. James, 342 Madison avenue, New York City. Owners, Cambridge Trust Co., Chester, Pa. Brick, limestone and reinforced concrete, 3 stories, 75x75 feet, slag roof, cement floors, steam heat, electric lighting, tile and marble work. Contract awarded to Chester Const. & Cont. Co., Chester, Pa.

**Bungalow**, Jenkintown, Pa. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Joseph Beatty, Lawn-dale, Philadelphia, and Mrs. Lillian M. Beatty. Hollow tile and stucco, 2½ stories, 34x36 feet, asbestos shingle roof, oak floors, hot water heat, electric lighting, tile work. Contract awarded to Joseph Ashby, Second Street Pike, Philadelphia.

**Warehouse**, Hazleton, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, Hazleton Wholesale Grocery Co., Hazleton, Pa. Brick and concrete, 1 story, 43x75 feet, Barrett Spec. roof, concrete floors (heating and lighting reserved), wood sash. Contract awarded to S. W. Drasher, Hazleton, Pa.

**Residence and Garage**, Cynwyd, Pa. Archi-

tect, Charles M. Wells, Rutledge, Pa. Owner, Linton H. Fish, care of architect. Stone, 2½ stories, 24x34 feet, and 1 story, 14x20 feet, slate roof, oak, pine and cement floors, hot water heating, electric lighting, tile work, iron work. Contract awarded to George W. Gregory, Swarthmore, Pa.

**Residence**, Wallingford, Pa., \$45,800. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Haviland H. Platt, Searsdale, N. Y. Stone, 2½ stories, 79x43 feet, shingle roof, composition, oak and pine floors, metal lath, tile and marble work, bond, iron work (heating reserved). Contract awarded to R. C. Ballinger Co., 935 Walnut street, Philadelphia.

**Central Office Building (alts. and add.)**, Shamokin, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, reinforced concrete and steel, 1 story and basement, 42x22 feet, slag roof, composition, pine and cement floors, waterproofing, iron work, bond, marble work, steam heating, electric lighting, metal lath. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

## New Jersey Construction News

**Church and Community Building**, Barrington, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Methodist Episcopal Church, care of Rev. E. O. Morgan, Barrington, N. J. Cinder block and concrete. Sketches in progress.

**Residence**, Collingswood, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Earl Lippincott, Collingswood, N. J. Timber, 2½ stories, 28x60 feet, slate roof, hardwood floors, vapor heat, electric light, metal lath, tile work. Sketches in progress.

**Residence (add. and alts.) to (2) Residences**, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. George M. Carey, Merchantville, N. J. Stone, timber, 2 stories, irregular size, hardwood floors, vapor heat, electric light, tile work, partition work. Sketches in progress.

**Store, Apartment and Lodge (alts. and add.)**, Salem, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Butcher & Harris, Salem, N. J. Brick, 2 stories, 40x125 feet, slag roof, pine and cement floors, steam heat, electric light, metal lath, general alterations. Sketches in progress.

**Residence (alts. and add.)**, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. William Allen, Jr., Haddonfield, N. J. General interior work, vapor heat, electric light, pine floors, plumbing. Plans in progress.

**Store and Residence**, Woodbury, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Mr. W. Villecco, Woodbury, N. J. Frame, 2 stories, 20x56 feet, asphalt shingle roof, pine floors, hot water heat, electric light. Plans in progress.

**Factory**, Palmyra, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owners, Standard Enameling Co., care of architects. Frame, corrugated iron, 2 stories, 30x140 feet, concrete floors, corrugated iron roof, pipeless heating, electric lighting. Plans in progress.

**Residence**, Thirty-seventh and Westfield streets, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, W. J. Gill, care of architect. Brick, 2 stories, 25x30 feet, asbestos roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

**Store (add. and alts.) to Store and Apart-**

**ment**, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, name withheld. Brick, 1 story, 20x20 feet, bulk windows, hot water heating, pine floors, plate glass partitions. Plans in progress.

**Auto Sales and Service Station**, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, William C. Davis, care of architect. Brick and cinder block, 1 story, 90x100 feet, slag roof, cement floors, steam heat, electric light, roof ventilators, floor hardener, rolled steel sash. Plans in progress. Will be ready for bids in one week.

**Colored School**, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Haddonfield School Board, Mrs. Wilson, secretary, Haddonfield, N. J. Brick, 1 story, 4 rooms, slag roof, maple and concrete floors, vapor heat, electric light, metal lath, rolled steel sash, roof ventilators, ornamental iron work. Plans in progress. Will be ready for bids in ten days.

**Y. W. C. A.**, Hanover street, Trenton, N. J., \$600,000. Architect, William Thompson, 342 Madison avenue, New York City. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Y. W. C. A., care of Mrs. Edward Dunham, 365 West State street, Trenton, N. J. Architects selected.

**Double Residence**, 133 Unit street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Mathews Madl, care of architect. Brick, 2½ stories, 48x14 feet, slate roof, pine floors, steam heat, electric light. Plans in progress.

**Office Building (alts.) to Hotel**, Princeton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, E. R. Branch, care of architect. General interior alterations, hardwood floors, electric light, tile work, plumbing. Plans in progress.

**Stores (2) and Apartment**, Roebling, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Joseph Borstch, Roebling, N. J. Brick, 2 stories, 34x70 feet, slag roof, hardwood floors, electric light, tile work, plate glass, rolled steel skylights, copper work, metal ceilings. Plans in progress.

**Residence**, Roebling, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, name withheld. Brick, 2½ stories, 52x16 feet, slate roof, pine floors, steam heat, electric light. Plans in progress.

**Tuberculosis Infirmary Building (add.)**, Glen Garden, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, care of Dr. English, Glen Garden, N. J. Hollow tile and stucco, 2 stories, 30x83 feet, tin roof, reinforced concrete and tile floors, electric light, tile work. Plans in progress.

**Elementary School**, Phillipsburg, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, School Board, care of Alfred Case, secretary, Phillipsburg, N. J. Brick, fireproof, 1 story, 8 rooms, steam heat, electric light, tile floors, hollow tile, metal lath, roof ventilators, waterproofing and dampproofing. Plans in progress. Will be ready for bids in three weeks.

**School**, Lapatecong Township, Warren County, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, Lapatecong School Board, William De Witt, secretary, Lapatecong, N. J. Brick, 2 stories, 45x140 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved). Architect taking bids due April 3rd.

**School**, Ewing Township, Mercer County, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Latham, secretary, care of architect. Brick, 1 story and basement, 30x87 feet, slag roof, pine floors, steam heat, electric light, metal lath, safety treads, roof ventilators, rolled steel skylights,



waterproofing and dampproofing, concrete stairs. Architect ready for revised bids.

**Residence**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, R. Kuser, care of architect. Brick, 2½ stories, slate roof, hardwood floors, steam heat, electric light. Architect ready for bids.

**Residence (alts.)**, Bridgeton, N. J. Architect, Thomas L. Ash, 1220 Locust street, Philadelphia. Owner, Joseph H. Powell, Bridgeton, N. J. Frame and stucco, 2½ stories, 40x50 feet, exterior alterations. Plans in progress.

**Residence (alts.)**, Haddonfield, N. J. Architect, Thomas E. Ash, 1220 Locust street, Philadelphia. Owner, Frank H. Clark, West Haddonfield, N. J. New heating system. Owner will take bids.

**Residence**, Delanco, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Henry Blair, Delanco, N. J. Frame and plaster, 2½ stories, 26x38 feet, shingle roof, hardwood floors, pine floors, hot air heating, electric lighting, tile work. Plans completed. Architect ready for bids.

**Residence (alts.)**, Riverton, N. J. Architect, J. Fletcher Street, 1129 Locust street, Philadelphia. Owner, Mrs. S. E. Woolman, Riverton, N. J. General alterations. Plans in progress.

**Theatre, Arcade and Store Building**, Kentucky avenue and Boardwalk, Atlantic City, N. J. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1218 Market street, and Guilford, Inc., 1038 Market street, Philadelphia. Brick, steel, concrete, stone, terra cotta, 170x190 feet. Plans about completed. Architects will be ready for bids in about ten days.

**Grove Street Grade School**, Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Haddonfield Board of Education, care of Mrs. Wilson, secretary, Haddonfield, N. J. Brick, 2 stories, 8 rooms (heating, plumbing and electric work reserved), slag roof, maple and concrete floors, metal lath, rolled steel sash, tin fire doors, safety treads, roof ventilators, iron stairs, ornamental iron work. Plans in progress. Architect will be ready for bids in ten days.

**Residence**, Audubon, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, American Legion Home, Casper Peiz, Audubon, N. J. Cinder block, 1 story and basement, 40x80 feet, asphalt shingle roof, pine floors, steam heat, electric light, plumbing. Architect ready for bids.

**Residence**, Moorestown, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owner, Mrs. S. B. Lippincott, Moorestown, N. J. Frame, 2½ stories, 36x28 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Owner ready for bids.

**Store, Apartment and Garages**, (3), Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Michael Matthews, Eighth and Florence streets, Camden. Cinder block, stucco, 1 story, 25x60 feet, 25x30 feet, slag roof, pine and concrete floors, hot water heat, electric light. Owner taking sub-bids.

**Bungalow**, Forty-first and Maple avenue, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, M. J. Jubanyik, 40 North Third street, Camden, N. J. Cinder block and stucco, 1 story, 40x20 feet, asphalt shingle roof, pine floors, steam heat, electric light. Owner ready for sub-bids.

**Bank**, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Gloucester City Trust Co., Dr. Headley, president, Atlantic and Monmouth avenues, Gloucester, N. J. Brick, limestone, 1

story, 42x70 feet, slag roof, concrete floors, vapor heat, electric light, cinder block, metal lath, tile, marble and terrazzo work. Will take bids in three weeks.

**Bungalow**, Edgewater Park, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Henry Blair, Edgewater Park, N. J. Architect taking bids due April 3rd.

**Store and Apartment, Warehouse and Boiler House**, Paulsboro, N. J. Architects, Lackey & Hettle, 5 Hudson Ave., Camden, N. J. Owner, Edward McIntyre, Paulsboro, N. J. Brick, steel and castone, 2 stories, 54x60 feet, 2 stories, 40x76 feet, and 1 story, 10x30 feet, slag roof, pine and cement floors, steam heat, electric light, metal lath, rolled steel sash, iron work. Lowest bid submitted by Wills Bill Co., 1706 Sansom street, Philadelphia.

**School**, Verna, N. J. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, West Deptford Township School Board, Lewis K. Wilkens, Thorofare, N. J. Lowest bidders: George W. Shaner & Son, Palmyra, N. J., \$25,307. Plumbing, J. P. Muldoon, Audubon, N. J., \$525. Electric, Enterprise Elect. Co., 239 South Tenth street, Philadelphia, \$650. Heating and ventilating, J. P. Muldoon, Audubon, N. J., \$4,350.

**School**, Oaklyn, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, School Board, Oaklyn, N. J. Lowest bidders: George W. Shaner & Son, Palmyra, N. J., \$48,525; Friel McLeister Co., Inc., 1615 Spruce street, Philadelphia, \$48,889. Plumbing, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, \$1,908. Electric, Reliance Elect. Co., Oaklyn, N. J. Heating, J. P. Muldoon, Audubon, N. J., \$6,900.

## New Jersey Contracts Awarded

**High School**, Ocean City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owners, Ocean City School Board, Ocean City, N. J. Brick, steel, fireproof, 3 stories, 194x191 feet (heating, plumbing and electric work reserved), slag roof, hardwood floors, metal lath, hollow tile, tile and marble work, roof, ventilators, waterproofing, dampproofing, terra cotta, ornamental iron work. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

**Parkway School and Auditorium**, Ewing Township, Mercer County, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Latham, secretary, care of architect. Brick, 1 story and basement, 115x127 feet, slag roof, pine floors, hardwood floors (heating, plumbing and electric work reserved), metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, bond. Contract awarded to Harrison & Fisher, Trenton, N. J.

**Residence and Garage**, Llewellyn Park, West Orange, N. J. Architects, Mellor, Meigs & Howe, 209 South Juniper street, Philadelphia. Owner, Robert W. Tilney, West Orange, N. J. Brick, 2½ stories, 50x98 feet, and 1 story, 22x22 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to John W. Barnes, 10 East Forty-third street, New York City, \$55,500.

## Delaware Construction News

**Elks' Home**, Wilmington, Del. Architect, J. D. Thompson, Ford Building, Wilmington, Del. Owners, Wilmington Lodge, B. P. O. E.,

care of architect. Brick, 6 stories. Too early for details.

**Hospital**, Clayton street, between Seventh and Eighth streets, Wilmington, Del. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Srs. of the Third Order of St. Francis, Glen Riddle, Pa. Reinforced concrete, steel, brick and cut stone, 3 stories, ground floor, 175x41 feet, wing 35x45 feet, tile roof, cement, composition and oak floors, metal lath, elevators, iron work, bond, hollow metal doors, rolled steel sash and skylights, tile and marble work, steam heating, electric lighting. Contract awarded to J. E. Healy & Son, 707 Tatnall street, Wilmington, Del.

**Residences (4)**, Twenty-third and Lamotte streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owners, City Real Estate Co., care of Mr. Lynch, 612 West Ninth street, Wilmington, Del. Brick, 2½ stories, 22x30 feet, slag, tin and slate roofing, pine floors, hot water heating, electric lighting. Contract awarded to P. W. Newell & Sons, 1401 Maple street, Wilmington, Del.

**Residence**, Bellevue, Delaware. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, George H. Markell, 830 Jackson street, Wilmington. Brick, 3 stories, 45x30 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved), tile and marble work. Contract awarded to Edward Johnson, Wilmington, Del.

## Miscellaneous Construction News

**Chemical Laboratory**, Morgantown, W. Va. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, West Virginia University, care of James S. Lakin, president, State Board of Commissioners, Charleston, W. Va. Stone and brick, concrete and steel. Plans completed. Owners ready for bids. Plans may be obtained from owners.

**Residence**, Winston-Salem, N. C. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Alexander S. Hanos, Winston-Salem, N. C. Frame and weather board, 2½ stories, 36x80 feet, tile roof (alternate for shingle), oak, cork tile and pine floors, vapor heating, electric lighting, tile work, marble work. Architect taking bids due March 31st.

**Garage**, Elkton, Md. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owners, Messers, Giles & Bouchelle, Elkton, Md. Concrete block, 1 story, 50x125 feet, slag roof, cement floors, steam heat, electric lighting, metal sash. Architect taking bids.

**Peabody Museum**, New Haven, Conn. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Yale University, New Haven, Conn. Stone and brick. Architects taking bids due April 16th.

**Warehouse and Office Building**, Southeast Corner Fourth and T streets, Washington, D. C. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, The Sanitary Grocery Co., Washington, D. C. Reinforced concrete, brick and steel, 4 stories and basement, 150x250 feet, slag roof, concrete floors, waterproofing, iron work, bond, kalamein doors, rolled steel sash (heating, electric work, elevators and plumbing reserved). Architects taking bids due April 4th at noon.

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.



## Miscellaneous

### Contracts Awarded

**High School, Roanoke, Va.** Architect, H. C. Richards, 608 Chestnut street, Philadelphia. Owners, School Board of Roanoke, J. A. Page, Clerk, Roanoke. Brick, concrete, steel, cut stone and granite, 2 stories and basement, 151x294 feet, composition roof, concrete and maple floors, safety treads, roof ventilators, metal weather strips, waterproofing and dampproofing, iron work, iron stairs, bond, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath (heating, etc., separate bids). Contracts awarded to E. M. Herringdon & Co., Roanoke, Va., \$476,011. Heating (warm air), American Heating & Ventilating Co., Richmond, Va., \$40,854. Plumbing, Simpson & Basham, Roanoke, Va., \$28,300. Electric, Engleby Elect. Co., Roanoke, Va., \$14,700.

**Athletic Field Club, New Haven, Conn.** Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Yale University, New Haven, Conn. Brick, reinforced concrete, steel, bluestone and granite, 3½ stories, 170x70 feet, slate roof, cement and pine floors, hollow tile, metal lath, tile and marble work, waterproofing, iron work and stairs, bond, steel and kalamein doors, rolled steel skylights. Contract awarded to Sperry & Treat Co., New Haven, Conn.

### Proposals

**TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 19, 1923.**—Sealed proposals will be opened in this office at 3 P. M., April 4, 1923, for interior painting, finishing, etc., of buildings and structures, as listed, for the United States Veterans' Hospital, at Perryville, Md. Specifications may be obtained at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

### POSITION WANTED

Clerk, experienced on construction work either on job or in office. Can handle purchasing, books, correspondence and general office work. Thoroughly familiar with all lines in building game. Address A. A., "Builders' Guide," Perry Bldg., Philadelphia.

(Continued from page 196)

the structure and may repay many times over the increased cost of furring.

Since hollow walls are good heat insulators, it has been found in many places that furring may be omitted and plaster applied directly to the interiors of walls which are built with a continuous hollow space or in which the mortar joints extend but part way through the wall.

In concrete house construction provision for insulation of exterior walls is recommended. A dead air space within the wall proper or formed by furring and plastering has been found effective and this requirement seems to be favored by those recommending the use of concrete external walls.

In applying plaster to furring lath, it is important that the keys shall not pro-

ject through so as to touch the wall, nor be allowed to drop off and form a solid mass between plaster and wall. In either case moisture from the wall is liable to be transmitted through the plaster producing troublesome results such as staining the wall, and ruining the lath—wood lath by dry rot and metal lath by corrosion. It is claimed that excellent results in furring 8 in. brick walls are obtained by attaching a layer of tarred paper to the back of the furring strips, or by using lath in which such paper forms an integral part.

Incombustible furring is excellent since it entirely prevents a fire creeping along a wall from one story to another behind the plaster. Hollow tile or gypsum furring blocks are much used and are quite satisfactory. They have grooves in the back face which furnish air spaces between the wall and the plaster. There are also several forms of metal furring to which metal lath is attached and which serve the same purpose. Where walls are likely to be damp, hollow tile furring will be more satisfactory than gypsum.

### WHY CONTRACTORS ENCROACH ON THE ARCHITECT'S FIELD

*Abstract of an Address by J. C. Edwards, President of the Southern California Chapter, A. G. C., Los Angeles, Calif.*

I intend to be very frank and name a few of the real reasons why contractors, who feel themselves capable, encroach on the architect's field. . . .

There has been a decided change in the personnel of the general contractors in the building industry during the past 20 years or even during the past 10 years. Improved methods are definitely eliminating the rule-of-thumb contractor, and the contractor of today feels that he is entitled to and should receive the same recognition as the architect or engineer.

Your profession has permitted commercialism to gain such a foothold that, in many cases, completeness of plans and specifications is sacrificed in order that more of the fee may be retained as a net profit. Where this is done controversies arise, extras are claimed, and both owner and contractor are dissatisfied.

The thing that makes government red tape on construction work bearable is the wonderful completeness of the plans and specifications and the exactitude with which one can determine the volume and kind of work to be done.

The custom of calling for such a multitude of alternate bids is not looked on with favor by the contractor. He feels that it is part of your service to the owner to predetermine the volume of

work to be done and the kind of materials to be used.

Contractors feel that in many cases bids are requested and their time consumed in preparing estimates on work, when the architect knows there is not even a remote possibility of the work going ahead; and it is a very common occurrence for a contractor to submit a proposal to an architect and for that proposal to be held for a month or more without being accepted or rejected, the contractor being unable to obtain any information regarding same. This is obviously unjust and should not be continued if it is your intention to recognize the service rendered to the industry by the contractor.

Draw your contracts so as to show fairness to both parties concerned, the owner and the contractor. Insert an arbitration clause in them so that honest differences may be settled out of court. This may be working a hardship on our friends, the attorneys but nevertheless it is a most satisfactory way of adjusting disputes.

In your contracts and specifications avoid the shifting of responsibility. I have seen contracts based on specifications which provided that the contractor was to assume all responsibility for plans and specifications complying with city ordinances.

Conditions such as I have mentioned have a tendency to create a desire in the contractor to undertake himself the architectural service necessary to a construction project and it is with increasing frequency that you hear of it from the larger contracting firms.

Please do not think for one moment that I fail to appreciate the fact that in many instances contractors have, by their unsatisfactory methods, driven the architects to seek a method whereby they might be eliminated.

It is necessary, however, that we tell you our troubles and you tell us yours if anything is to be done to check this tendency to encroach on one another's field.

There never was a truer saying than this: "A man who is his own attorney has a fool for a client". The principle is applicable to construction. We each have a distinctive service to perform and I doubt very much the ability of either of us to successfully assume the other's position.

Our association will heartily endorse any effort on your part to eliminate the undesirable man in the business, because by so doing we both will be rendering a really honest service to the public. Unless such a service is rendered there is no justification for the existence of yours, ours, or any similar organization.—*National Builder.*



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
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## ARTISTS AND ARCHITECTS' SUPPLIES.

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Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co., Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
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Keystone Blue Paper Co., 910 Filbert St., Phila.  
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Weber, F., Co., 1125 Chestnut St., Phila.  
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## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

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Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
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Smith, Edwin A., & Son., 1015 Frankford Ave., Phila.

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## CEMENT WORK.

Massiah, Frederick., Juniper and Cypress Sts., Phila.

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Pralatt Equipment Co., Drexel Bldg., Phila.

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Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co., 133 Arch St., Phila.

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Potts, Horace T. & Co., 316 N. 3rd St., Phila.  
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## FURNACES AND RANGES.

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Miller, Henry M., 46 N. 2nd St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

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Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.  
Oil-O-Matic Heating Co., 1610 Fairmount Ave., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

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Ketcham, O. W., 121 N. 18th St., Phila.

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Weber, F., Co., 1125 Chestnut St., Phila.  
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Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
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## LUMBER.

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## MARBLE MOSAIC.

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Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

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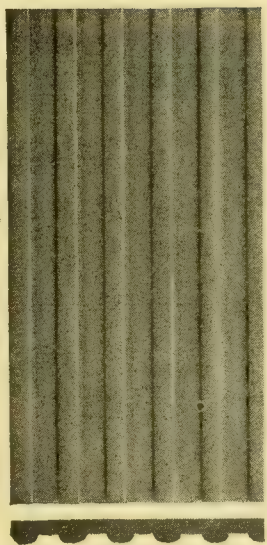
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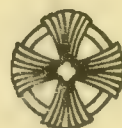
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 14

April 4, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

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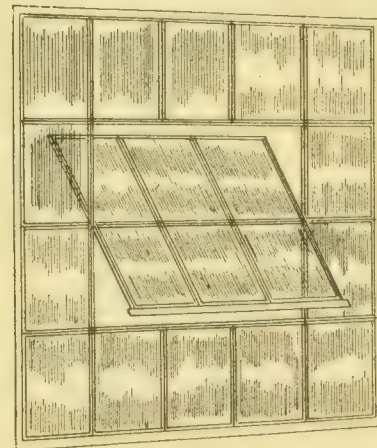
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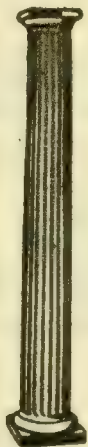
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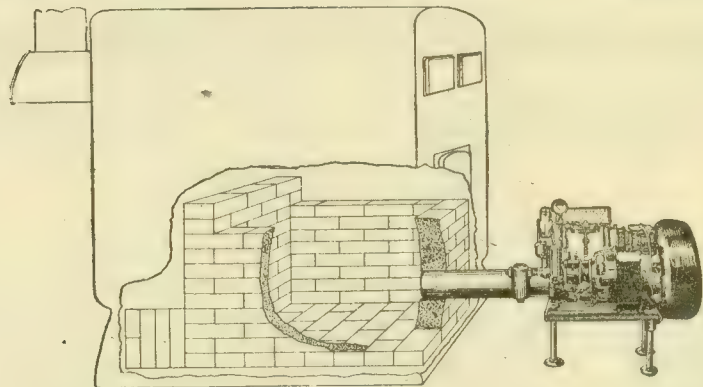
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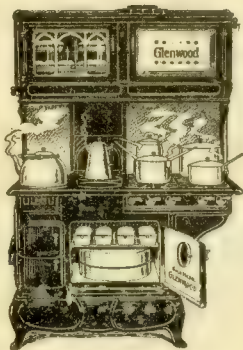
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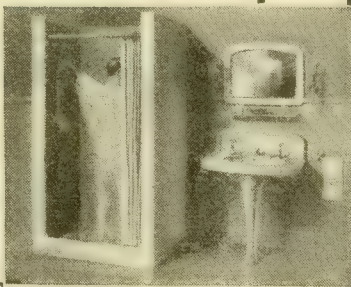
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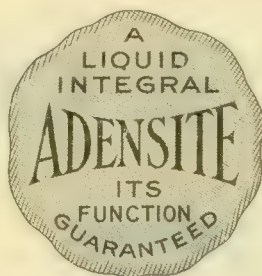
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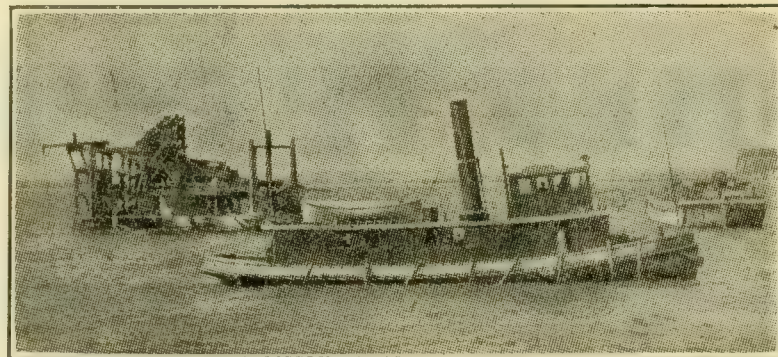
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 14

PHILADELPHIA  
April 4, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 324-325-326)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

Advertising Manager, L. A. DeLone

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To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

Subscriptions not discontinued at expiration  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



By losing money yourself, you will never contribute to the benefit of industry in general. An unwise bid, even on the part of the most responsible contractor, hurts the construction industry. "Do not bid too low" is just exactly as beneficial a slogan, so far as the industry and the public are concerned, as is "Do not raise costs by striving for great selfish profits."

When the subcontractor has put in a season and, after the manner of his own figuring, sees a very skimpy margin of gain, there is something wrong which should be righted. And be it inserted right here that oftentimes when the subcontractor does see a skimpy margin, the services of a cost accountant would acquaint him with the fact that even the skimpy margin is not there. It has been eaten by overhead and other factors he forgot to figure in.

There is much said about relations with subcontractors. There need be nothing said if men recognize the golden rule and bid with understanding. Price cutting on the part of material men, ill advised bidding on the part of contractors, gouging the subcontractor are dead weights on progress.

The aim of each factor of the industry should be to make a decent profit, and to do this by proper charging and not by skinning some unfortunate to recoup a loss which should be borne by the loser be-

cause he did not do that which would forestall the loss.

No one should be in business for his health, neither should anyone be in business parasitically, that is to make money off the mistakes of others. See to it that you can make a legitimate profit. Then take upon yourself the much bigger and harder task of making all others in the construction industry see the same thing. The vast amount of building which is being done should in general render profits to the materialmen all along the line, to the subcontractor, and to the general contractor; but this will never come about until each of the above recognizes the universal co-operation which should exist. How shall this co-operation be secured? The answer lies with you and with each of the associations to which you belong.

The low bid on a residence is \$17,000. The next higher bid is \$21,000; three other bids range up to \$24,000. The low man cannot give bond but the owner awards him the contract notwithstanding. The one-sided Mechanic's Lien law, as the owner knows, gives no standing to claims of dealer and subcontractor against the building, unless written notice has been served before delivery of material or service that lien will be filed if the claims are unpaid, and the owner has not refused acceptance of delivery under that condition. Is it conceivable that this owner should take a bid from a party

who could not give bond, if the owner knew that HE would be liable for payment of all bills for material and service on the building in the event that the contractor did not pay them?

The further history of the project, of which I have been speaking, is that the contractor fell down on the job and the owner had to have the house completed under the architect's supervision. The contractor's work had been so poorly done that the completed house is considered in building circles a botch, and the owner knows it. Dealers and subcontractors who had unpaid bills against the contractor on account of this house had to compromise at 50 cents on the dollar, although the owner is wealthy. The lure of business had led them to take the same chance that the owner took, and they, too, became losers.

Here are the fruits of a one-sided law: 1. A \$4,000 premium on incompetence and irresponsibility took the job away from a competent and a responsible contractor. 2. The owner has a blotched house. 3. The dealers and subcontractors charge 50 per cent. of their claims off to profit and loss. 4. Other owners have to carry this loss and other losses of the same character because of the larger margin of profit the losers must charge to absorb these losses. Should not all responsible building interests co-operate to end such wasteful, inequitable, senseless conditions of doing business and so

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bring nearer equitable uniformity in lien laws?"—From an address delivered by Virgil Dibble, Columbia, South Carolina, before the National Association of Builders' Exchanges at Des Moines, Iowa, February 13, 1923.

#### WHAT FIRE COSTS PENNSYLVANIA

*State Suffered Nearly 26½ Million Dollars Loss in 1921, According to National Board of Fire Underwriters—Three-Fourths of This Waste Clearly Preventable*

Can it be that residents of Pennsylvania really are not much concerned about the persistently mounting cost of living? That, of course, is highly unlikely; yet it appears that, from figures compiled by the Actuarial Bureau of the National Board of Fire Underwriters \$26,443,596 worth of property was burned in this State during 1921; and this is a waste which definitely and substantially affects living expenses.

To this total fire loss—which places Pennsylvania second among the forty-eight states—every man, woman and child contributed an average of \$3.03, although few probably realized it. In 1918, the destruction amounted to \$19,198,923, which indicates the startling increase in three years of \$7,244,673. It is customary, also, to add to the total 25% for unreported and uninsured losses.

Analysis of the elaborate tabulation published by the National Board establishes the fact that, of the twenty so-called originating causes, "Matches-Smoking" was chiefly responsible for this monstrous wastage. Its share of the damage inflicted was \$1,817,931. Following this cause came "Spontaneous Combustion," with \$1,182,318, and "Stoves, Furnaces, Boilers and Their Pipes," to which was attributed \$1,013,265 loss. Fire prevention engineers consider that fully 75% of the country's permanent fire destruction always is clearly preventable, because to that extent it is due to public habits of carelessness and to ignorance.

Turned to use instead of to smoke, such a sum as Pennsylvania lost in 1921 would have built no fewer than 134 modern, fire-resistive school houses, at an individual cost of \$200,000. Applied, as much of it might have been, to construction of good macadam roads, to erection and maintenance of hospitals or to any one of a score of public works, this amount of money would have served the two-fold purpose of improving conditions and at the same time lowering taxes.

Furthermore, there were sundry incidental losses, apart from the main one, that should not be forgotten. All of the property destroyed was automatically re-

moved, at least for a time, from municipal tax rolls, which, of necessity, meant an increased levy upon other property holders. The heavy cost of extinguishing the many individual fires that resulted in the \$26,443,596 total is one which must be reckoned with, and this expense, too, was borne by the public.

Regrettable beyond everything else, however, and completely overshadowing the combined financial burden, was the loss of life and the injuries from fire which, in company with the rest of the states, Pennsylvania had to record. Indeed, to realize that at least three-fourths of the life and property sacrifice might, with care and knowledge, have been avoided, and not to feel strongly the urgency of public instruction in the prevention of fire, is scarcely possible for any one who has at heart his own best interests and those of Pennsylvania.

#### BRUSH VERSUS SPRAY METHODS OF PAINTING

A comparative test of interior painting for cement plaster was carried out last fall under the direction of Committee D-1 of the American Society for Testing Materials.

Three identical wall spaces of soiled and unpainted cement plaster in a large hall in Carnegie, Pa., were marked off, each having an area of 205 square feet. On space No. 1, two expert brush men coated the surface in 17¼ minutes. On space No. 2 one man with a spray gun coated the surface in 12½ minutes and on space No. 3 one man with a spray gun covered the space in 12 minutes. Both of the areas showed considerably better hiding than the brushed space. The brush men worked at extreme speed.

On the ceiling work, two men, each using a spray gun, sprayed 3,400 square feet in 2 hours and 15 minutes.

Taking the ceiling and wall work together, 4,000 square feet were sprayed with 29 gallons of paint, one coat giving much better hiding than the brush work.

The paint used in this test was very heavy flat wall finish in white. This test developed that it is possible on this class of work to get much better hiding with the spray than by brushing, for there is less rubbing up of the dust and and dirt into the wet paint; moreover, more paint per coat can be applied with the spray than by hand brushing. The cost of painting the wall section, 205 feet in area, at a rate of \$1.35 per hour was 77.6 cents with the brush and 27 cents with the best spray.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

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CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residences (2)**, Overbrook, Philadelphia. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, Frank Seeburger, 1524 Chestnut street, Philadelphia. Stone and hollow tile and stucco, 2½ stories, 30x65 feet, slate roof, hardwood floors, electric lighting, tile and marble work. Plans in progress.

**Residences (21)**, Northwest Corner Fifty-fourth and Upland Way, \$107,000. Owners, Lenox Const. Co., 2313 Walnut street, Philadelphia. Brick, 2 and 3 stories, (1) 28x18x16 feet, and (20) 12x9 feet, 16x28 feet, and 12x11 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Garage (alts.)**, 892 North Fiftieth street, Philadelphia, \$2,200. Architect, private plans. Owner, M. J. McGuire, 126 North Fifty-second street, Philadelphia. General alterations. Owner will build.

**Stores (2) and Apartment Building**, Northeast Corner Baynton and Rittenhouse streets. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, Salvatora Bovio, on premises. Brick, steel and cut stone, 2 and 3 stories, 81x40 feet, slag roof, pine and mineral floors, hot water heat, electric light. Architect will be ready for general bids on revised plans in one week.

**Residences**, Godfrey ave., Lawndale, Phila. Architect, Jacob Naschold, 5224 North Second street, Philadelphia. Owner, Andrew Palmisano, Godfrey avenue, Lawndale, Pa. Stone, 2½ stories, 30x30 feet, asbestos shingle roof, pine floors, hot water heat, electric light, tile work. Architect is ready for sub-bids.

**Store Building (alts.)**, 124 South Thirteenth street, Philadelphia. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Lousol's, on premises. Carpentry, mill work, rubber tile and oak floors, plastering, painting, glazing, tile and terrazzo work. Architect is taking sub-bids.

**Residence**, Burholme, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Frank W. Wheeler, 3347 North Water street, Philadelphia. Frame and stucco, 2½ stories, 27x35 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile and marble work, screens. Plans completed. Will take bids in a few days.

**Stores (3)**, 4423-25-27 Frankford avenue, Philadelphia. Architect, Edward J. Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, La France Textile Co., on premises. Brick, 3 stories, 45x75 feet, add. 1 story, 15x33 feet, slag roof, maple or composition floors, metal ceilings, terra cotta, copper bars, flush bulks, plate glass, tile and terrazzo work, steam heat, electric light. Plans in progress.

**Boiler House**, 4420-28 Paul street, Philadelphia. Architect, Edward J. Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, La France Textile Co., 4423 Frankford avenue. Brick, 1 story, 33x36 feet, steel reinforced roof, cement floors, rolled steel sash, radial brick chimney 70 feet high. Plans in progress.

**Office Building**, 404 to 414 Walnut street, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, General Accident Fire and Life Assurance Corp., Ltd., 423½ Walnut street, Philadelphia. Brick, steel, concrete, stone and terra cotta, 10 stories. Plans in progress. Details undecided.

**Stores (alts.)**, Broad and Erie avenue, Philadelphia. Architect, Charles W. Gilmore, 10 South Eighteenth street, Philadelphia. Owner, name withheld. General alterations. Plans in progress.

**Residence (alts.) to Store and Apartments**, 1236 South Eleventh street. Architect, Edwin L. Rothschild, 1420 Chestnut street. Owner, William Reynolds, care of architect. General alterations, slag roof, flush bulks. Plans in progress.

**Residence (alts.)**, Queen Lane and Stokely streets, Philadelphia. Architects, Samuel D. Hawley & Co., 30 South Seventeenth street, Philadelphia. Owner, William T. Headley, on premises. General alterations, brick work, addition to garage. Plans in progress.

**Loft Building (alts. and add.)**, 820 Arch street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. New stone front, copper work, mill work, roof repairs, maple floors, freight and passenger elevators, metal ceilings, electric light, fire tower, general alterations, size of building 20x142 feet. Plans in progress.

**Stores and Apartments (alts. and add.)**, 210-212 North Fifty-second street. Architect,

J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, W. J. Conner, 204 North Fifty-second street, Philadelphia. Brick, 3 stories, 18x18 feet, slag roof, tile (Spanish), plastering, plaster board, metal bulks, metal ceilings, tile work. Plans completed. Architect is ready for bids.

**Residence**, Sixty-fourth avenue and Sixth street, Oak Lane, Philadelphia. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owner, George T. Gravenstine, 609 Sixty-fourth avenue, Oak Lane. Stone, 2 stories and basement, 50x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Stores (6)**, Thirty-fourth and Hamilton streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, 1 story, 16x24 feet, slag roof, pine floors, gas heat, electric light, tile work, sheet metal work. Plans in progress. Architect will be ready for bids in two weeks.

**Bank Building**, Manheim and Wayne avenue, Germantown, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owners, Manheim Trust Co., care of architect. Preliminary plans in progress. Too early for details.

**Residence**, Weigard street, East of Ridge avenue, Roxboro. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owner, Walter J. Schopp, 10 South Eighteenth street. Stone, 2 stories, 25x37 feet, slate roof, oak and pine floors (vapor heat, electric work and plumbing reserved), tile and iron work. Revised plans in progress.

**Store and Apartments**, location withheld. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Jacob Gorchov, 4116 Girard avenue, Philadelphia. Brick, 4 stories, 115x63 feet, slag roof, hardwood floors, artificial stone, vapor heat, electric light, plumbing, tile work, fire tower, Spanish tile work. Revised plans completed. Owner will build and is ready for sub-bids due as soon as possible.

**Store Building (alts.)**, 238 North Thirteenth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, general alterations. Plans in progress. Architect will be ready for bids in one week.

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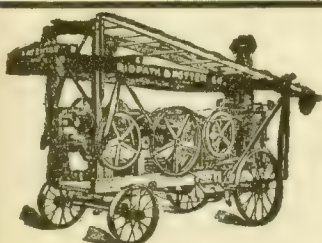
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**Building (alts.) to Offices**, 4649 Frankford avenue. Architect, Edward J. Schoeppe, 315 South Fifteenth street, Philadelphia. Owners, Kuhn & Lowery, Fifth and Rockland streets, Philadelphia. Alterations to three-story building, hardwood floors, new stairways, plastering, carpentry, mill work, metal ceilings, plumbing, electric lighting. Owners will be ready for bids in one week.

**Residence**, Roosevelt Boulevard, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Chester W. Haigh, 4512 North Tenth street. Stone, 2½ stories, 37x30 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Owner will build. Plans in progress.

**Residences (4)**, North side of Cheltenham avenue, between Fairhill and Fifth streets, Philadelphia, \$30,000 each. Architect, Warren Neff, 2602 North Sixtieth street, Philadelphia. Owner, E. C. Durell, 1716 North Twenty-fourth street, Philadelphia. Stone, 2½ stories, 41x28 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Owner will build.

**Store (alts.) and (5) Apartments**, Thirteenth and Cabot streets, Philadelphia. Architect, private plans. Owner, name withheld. Brick work, mill work, carpentry, hot water heating, electric work, plumbing, tile work. Reliable Const. Co., 831 North Fifteenth street, is taking sub-bids.

**Residence and Garage**, Queen Lane, Philadelphia. Architects, R. R. Neely and E. William Martin, 2300 Spruce street, Philadelphia. Owner, Howard L. Stringer, 2023 North Seventh street, Philadelphia. Brick and stucco, 2½ stories, 30x37 feet, hot water heat, electric lighting, tile work, hardwood floors. Owner will build.

**Residence and Garage**, West School Lane and Oak Road, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building. Owner, Mrs. John F. Keater, 218 West Walnut Lane, Philadelphia. Stone, brick, concrete block, cut stone and steel, 2½ and 1½ stories, 94x50 feet, and 28x23 feet, slate (shingle alternate) roof, oak, pine and cement floors, iron work, bond (heating, lighting, plumbing, tile and cork composition floors reserved). Architect taking bids due April 5th.

**Church (alts. and add. of Sunday School and Parsonage)**, Seventieth and Woodland avenue, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Siloam Methodist Episcopal Church, on premises. Stone, cut stone and steel, 2 stories, irregular, slate roof, pine floors, controlled heating, electric light, iron work. Architects taking bids due April 11th.

**Bridge**, Emoryville, Newlin Township, Chester County, Pa. Engineer, Harry K. Ellis, Phoenixville, Pa., and care of owners. Owners, Chester County Commissioners, care of David Golder, Chester County Court House, West Chester, Pa. Concrete and steel. Owners taking bids due April 9th.

**Apartment House (alts. and add.)**, near Thirty-fourth and Powelton avenue. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, name withheld. Brick, limestone and steel, 1 story add., 24x40 feet, slag roof, hardwood floors, hot water heat, plumbing, electric light, tile and marble work. Plans in progress.

**Club House**, 3706 Locust street, Philadelphia. Engineer, Thomas Byrd Epps, 101 Tremont street, Boston, Mass. Owners, Kappa Sigma Fraternity, care of Wesley Leshner Blithe, 608 Chestnut street, Philadelphia. Brick, artificial stone and steel, 4 stories and 8 stories, 103x21 feet and 36x24 feet, slag and slate roof, oak floors, hollow tile, roof ventilators, terra cotta, iron work, tin-clad doors, hollow metal skylights, metal lath, steam heat, electric light. Architect taking bids due April 7th.

**Residence**, East Walnut lane, Philadelphia. Architects, Platt & Talley, 341 East Upsal street, Philadelphia. Owner, Joseph Missimer, 528 Walnut lane, Philadelphia. Stone and cut stone, 2 stories, 47x43 feet, slate or tile roof, oak and pine floors, metal lath, metal weather strip, iron work. Architects taking bids due April 10th.

**Synagogue (alts.)**, 3940 Girard avenue, Philadelphia. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owners, Congregation Tifereth Israel of Parkside, on premises. Brick work, steel, caststone, slag roof, composition and pine floors, steam heat, electric alterations, metal lath, bond, terra cotta, ornamental iron work, leaded glass. Architect taking revised bids due April 6th.

**Residence**, School lane, Germantown, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Maurice A. Webster, 243 Winona street, Philadelphia. Brick, 2½ stories, 34x51 feet, wing 22x25 feet, garage, 22x18 feet, shingle roof, oak and pine floors, electric light, tile work, iron work. Architect taking bids due April 12th.

**Residence (alts.) and Stores (add.)**, Northeast Corner Fifteenth and Spruce streets. Architect, Nicola L. Porreca, 2062 South Fifty-second street, Philadelphia. Owner, Mrs. Mary A. Materi, on premises. Brick, cut stone, steel, limestone and granite, 2 stories and basement, 60x20 feet, tin roof, hardwood floors, hot water heating, electric light, metal lath, roof ventilators, bond, iron work. Architect taking bids due April 7th.

**Building (alts.)**, 616-18 Arch street, Philadelphia.

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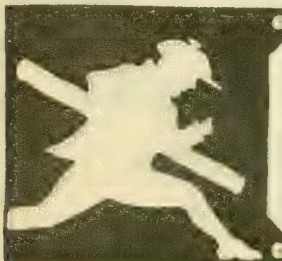
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delphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Paul M. Mayers, 1714 Chestnut street, Philadelphia. Brick, concrete, castone, granite and limestone, slag roof, cement floors, electric work, metal lath, tile and marble work, rolled steel sash and skylights. Architect taking bids due April 5th.

**Residence**, Sedgwick, Philadelphia. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, John T. Kommer, 6335 Stenton avenue, Philadelphia. Stone, brick and steel, 2½ stories, 45x30 feet, slate roof, oak and pine floors, iron work, electric light, tile work. Architect taking bids due April 9th.

**Stores and Apartments**, 426 North Sixty-third street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. Small, on premises. General alterations and additions. Owner taking bids.

**Store and Office**, Southeast Corner Twenty-eighth and Earp streets, \$17,000. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 54x30 feet, slag roof, electric work. Owner will build.

**Residence**, 1213 East Washington lane, Philadelphia, \$6,200. Architect, private plans. Owner, John Green, 3066 North Bambrey street, Philadelphia. Brick, 2 stories, 25x39 feet, slag roof, hot water heat, electric light, hardwood floors. Owner will build.

**Storage Bin**, North side Bainbridge street, West of Schuylkill avenue. Architect, private plans. Owners, West Jersey Sand & Supply Co., Beach and Marlborough. Concrete. Owners will build.

**Residences (19), Garages (2)**, Sixty-sixth and Sherwood avenue, Ogontz and Cheltenham avenues, and Church lane and Ogontz, \$125,700. Architect, private plans. Owner, George H. McCracken, 2528 West Lehigh avenue, Philadelphia. Brick, 2 stories, various dimensions, hardwood, pine and cement floors, electric lighting, tile work. Owner will build.

**Residences (38)**, Fifty-sixth and Lebanon avenue, Philadelphia, \$206,000. Architect, private plans. Owner, Harry J. McLean, 521 South Fifty-second street, Philadelphia. Brick, 2 stories, 16x31 feet, 12x12 feet, and 16x43 feet, slag roof, hardwood floors, electric light, tile work. Owner will build.

**Apartment Buildings (10)**, Forty-ninth and Locust streets, Philadelphia, \$270,000. Architect, private plans. Owner, N. Raidman, 5130 Walnut street, Philadelphia. Brick, 3 and 4 stories, 6 stories, various dimensions, slag roof, hardwood and pine floors, electric lighting, tile work. Owner will build.

**Residences (27)**, Twenty-first street, Stenton avenue and Sixty-sixth avenue, \$130,000. Architect, private plans. Owner, John Mortimer, 3377 Emerald street, Philadelphia. Brick, 2 stories, 16x57 feet, and 2 stories, 15x30 feet, 12x10 feet, slag roof, oak and pine floors, electric light. Owner will build.

**Residences (6), Store and Residences (1)**, Penn street, East of Armstrong, \$24,100. Architect, private plans. Owners, James Nolan & Son, 64 Church lane, Philadelphia. Brick, 2 stories, 16x30 feet, 15x28 feet and 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

**Milk Station (add.)**, 909-11 North Jessup street, \$6,000. Architect, private plans. Owners, Philadelphia Milk Exchange, 909 Saratoin street, Philadelphia. Brick, second story add., 30x64 feet, slag roof. Owner will build.

**Residence**, West side Eighty-sixth street, North of Tincum avenue, \$5,000. Architect, private plans. Owner, Charles D. Ruth, 8002 Eastwick avenue, Philadelphia. Brick, 1 story, 28x35 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Garage**, West side Second street, North of Lindley avenue, \$3,000. Architect, private plans. Owners, Bauerle & Nace, 227 Lindley avenue, Philadelphia. Brick, 1 story, 15x18 feet, slag roof, cement floors. Owner will build.

**Garage**, East side Mathias street, South of Fairthorne, \$2,500. Architect, private plans. Owners, G. L. and J. K. Callahan, 542 East Fairthorne street. Brick, 2 stories, 27x20 feet, slag roof, cement floors, electric lighting. Owner will build.

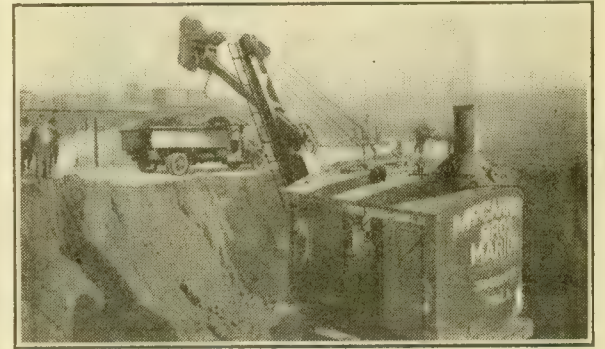
**Factory**, 1739 Germantown avenue, Philadelphia, \$60,000. Architect, private plans. Owners, John B. Stetson Co., Fifth and Montgomery avenue. Brick (first class), 8 stories, 21x50 feet, 72x104 feet, slag roof, electric light, steel sash. Owner will build.

**Residences (2)**, North side Westview street, West of Germantown avenue, \$5,000 each. Architect, private plans. Owner, George A. Gregory, 6732 Chew street, Philadelphia. Brick, 2 stories, 20x35 feet, slag roof, hot water heat, electric light, hardwood floors. Owner will build.

**Residence**, East side Bingham street, South of Cottman, \$4,500. Owner, John C. Soltz, Buckingham, Pa. Frame, 3 stories, 25x28 feet, 15x12 feet, hot water heating, electric lighting, hardwood floors. Owner will build.

**Residences (62)**, Sixteenth and Seventeenth and Widener Place, \$387,200. Architect, private plans. Owners, John Loughran's Sons, Inc., Park avenue and Cambria. Brick, 2 stories, various dimensions, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences, Garages and Stores (22)**, Fortieth and Reno streets, and Fortieth and Brown streets, \$101,000. Owner, Abe Koch, 4284 Parkside avenue, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, electric light, hot water heat. Owner will build.



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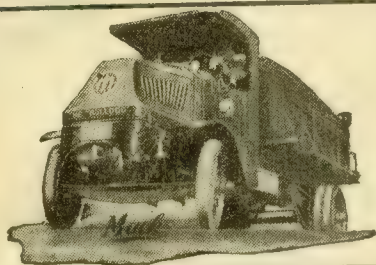
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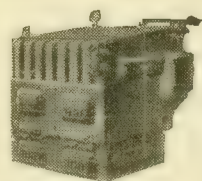
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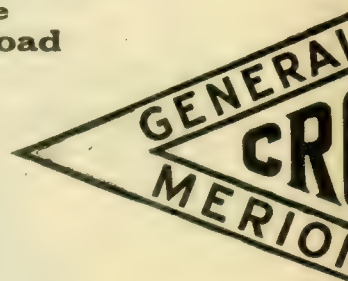
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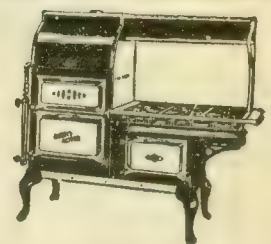
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**Factory**, 1344-46-48 North Front street, Philadelphia, \$35,000. Architect, private plans. Owner, John J. McGrath, 1342 North Front street, Philadelphia. Brick, 3 stories, 52x89 feet, slag roof, electric work, yellow pine floors. Owner will build.

**Residences (2)**, North side Sixty-sixth avenue, West of Sixth street, \$10,000. Architect, private plans. Owners, J. Schechter & Levitt, 526 Mifflin street, Philadelphia. Brick, 2 stories, 18x53 feet, 10x14 feet, slag roof, tile work, hardwood floors, electric light. Owners will build.

**Apartment (alts.)**, 1715 Master street, Philadelphia, \$7,500. Architect, private plans. Owner, L. Elgart, 5232 Parkside avenue, Philadelphia. General alterations. Owner will build.

**Garage**, West side Croskey street, South of Indiana avenue, \$4,500. Architect, private plans. Owner, Charles D. Land, Chalmers and Marston streets, Philadelphia. Brick, 1 story, 90x35 feet, slag roof, cement floors, hot water heat, electric light. Owner will build.

**Residence**, Queen Lane Manor, Midvale avenue, \$10,000. Architect, Thomas B. Lippincott, 1011 South Sixteenth street, Philadelphia. Owner, Mrs. Emma Stevens, care of architect. Hollow tile and stucco, 2½ stories, 25½x34½ feet, wing 18x21 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Tourison & Tourison, 1310 Arch street, Philadelphia.

**Warehouse (alts.)**, Southeast Corner Thirty-seventh and Market streets, \$10,000. Architect, private plans. Owners, Atlas Storage Warehouse Co., on premises. Carpentry, mill work, painting, glazing, general alterations. Contract awarded to France & Missar, 6725 Yocum street, Philadelphia.

**Residence**, Northeast Corner Park Line Drive and Cliveden street, \$40,000. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Joseph Sionsky, 2223 North Thirty-third street, Philadelphia. Brick, 3 stories, 47x45 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to M. B. Stackhouse, 6081 Rianhart street.

**Residence**, East side Lawndale street, South of Cottman street, \$6,500. Architect, private plans. Owner, Russell Gratz, 3310 Mutter street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hardwood floors. Contract awarded to Joseph L. Burgert, 626 East Lippincott street.

**Two-Family Residence (alts.)**, 1338 North Fifty-sixth street, Philadelphia, \$5,000. Architect, private plans. Owner, Lorenzo D.

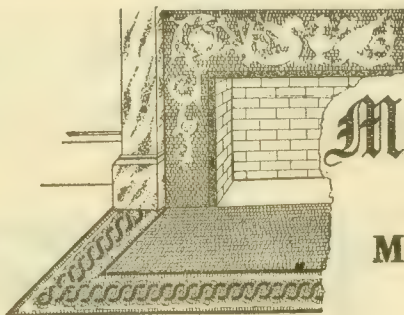
## Contracts Awarded

### Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**College Annex**, Seventeenth and Thompson streets, Philadelphia. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Joseph's College, on premises. Brick, concrete, cut stone and steel, 3 stories, 197x54 feet, tile roof, cement and maple floors, hollow tile, metal lath, terrazzo and marble work, kalamein doors, rolled steel sash, bond, floor hardener, iron stairs, iron work. Contract awarded to Frank V. Warren Co., 132 South Seventeenth street.

**Ice Manufacturing Plant**, Cresheim Valley Drive and Moreland avenue, Philadelphia.

Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Cresheim Valley Plant of the Glen Willow Ice Co., Main street, Manayunk, Philadelphia. Reinforced concrete and steel, 1 story, 119½x200 feet, asbestos built-up roof, cement floors, terra cotta, floor hardener, bond, hollow steel doors, copper skylights, hollow metal sash, metal lath (heating, lighting, plumbing, cork insulation and wood block floors reserved). Contract awarded to Farrell Roth Const. Co., 1624 Spruce street, Philadelphia.



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Cloud, on premises. General alterations. Contract awarded to L. L. Kreider, 209 North Fifty-ninth street, Philadelphia.

**Residences (4)**, 468-70-72-74 Markle street, Philadelphia, \$4,000. Owner, Louise C. Missimer, North side Hermit, West of Ridge. Brick, 2 stories, 16x40 feet, slag roof, electric lighting. Contract awarded to Henry C. Missimer, Hermit, West of Ridge.

**Y. M. H. A.**, Broad and Pine streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Y. M. H. A., A. M. Greenfield, chairman, Fifteenth and Chestnut streets. Reinforced concrete, steel, cut stone, brick and limestone, 4 stories and basement, 140x150 feet, slag and tile roof, maple, oak and cement floors, hollow tile, safety treads, roof ventilators, cold water painting, waterproofing and dampproofing, terra cotta, wire work, metal lath, tile and marble work, iron work, floor hardener, iron stairs (heating, electric work, plumbing and elevators reserved). Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

**Building**, 5310 to 16 Westminster avenue, Philadelphia, \$50,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, S. S. Redifer Co., 139 Race street, Philadelphia. Brick, cut stone, steel and concrete, 2 stories and basement, 100x49 feet, slag roof, cement floors, hollow tile, metal ceilings, iron work, bond, rolled steel doors, sash and skylights (heating, lighting, plumbing, sprinklers and elevators reserved). Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Oak Lane Central Office Building (alts. and add.)**, City Lane and Chestnut avenue, Oak Lane. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, concrete and steel, second story add., 70x30 feet, slag roof, concrete floors, waterproofing, bond, marble work, electric lighting, steam heating, tin-clad doors, copper skylights, metal lath, tile work. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

**Residence and Garage**, Westview and Wissahickon avenue, Philadelphia, \$30,000. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, A. M. Burd, 1719 North Franklin street, Philadelphia. Hollow tile and stucco, 2½ stories, 31x79 feet, shingle roof, oak and pine floors, hot water heat, electric light. Contract awarded to William J. Gruhler Co., 219 High street.

**Residence**, Chestnut Hill, Philadelphia, \$35,000. Architects, Willing, Sims & Tal-

butt, 129 South Eighteenth street. Owner, Dr. Norman Henry Taylor, 338 East Springfield avenue. Hollow tile, cut stone and stucco, 2½ stories, 71x40 feet, shingle roof, oak, pine and cement floors, waterproofing, iron work, bond, marble work, metal lath (heating, electric work and plumbing reserved). Contract awarded to John E. Walt, 204 East Willow Grove avenue.

**Residences (alts.)**, 253 to 261 South Van Pelt street, Philadelphia, \$30,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Marian D. Grant, care of architect. Brick work, cut stone, plastering, carpentry, mill work, painting, electric work, bond, iron work (heating reserved). Contract awarded to Christian F. Roeger, 617 Delancey street.

**Apartment**, Southeast Corner York Road and Courtland street, \$27,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Rose Gamson, 1527 Widener Place, Philadelphia. Brick, 3 stories, 20x84 feet, 40x84 feet, hot water heat, electric lighting. Contract awarded to Jacob Getzik, 531 South street, Philadelphia.

**Parish House**, Chestnut avenue, North of Bethlehem Pike, Chestnut Hill, Philadelphia, \$140,000. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, St. Paul's Protestant Episcopal Church, Rev. J. H. Chapman, Chestnut Hill, Philadelphia. Brick and stone, 2 stories, 64x30 feet, 40x76 feet, 40x25 feet and 24x34 feet, slate roof, pine floors, steam heating, electric lighting. Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

**Stores and Apartments (2)**, 5610-12 Rising Sun avenue, Lawndale. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, A. Goldstein, 4813 Frankford avenue, Philadelphia. Brick, 2½ stories, 18x75 feet and 16x18 feet, slag roof, hardwood and pine floors, hot water heat, electric light tile and marble work, hollow metal sash, rolled steel skylights, bond, metal bulks. Contract awarded to J. Schmulker, 1961 North Stanley street.

**Residence**, Cinnaminson street, near Mitchell street, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Stone, concrete block and steel, 2 stories, asphalt slate roof, pine floors, hot water heat, electric light, plumbing, tile work. Contract awarded to Carl F. Hirsch, Conshohocken, Pa., who is taking sub-bids.

**Building**, Northwest Corner Ridge and Midvale avenues, Philadelphia, \$7,000. Archi-

tect, Herman Miller, Crozer Building, Philadelphia. Owner, Morris Magill, 4176 Ridge avenue, Philadelphia. Brick and steel, 2 stories, 27x20 feet, slag roof, pine floors, metal lath, marble work, bond, iron work. Contract awarded to Edward A. Fricke, 2437 West Hiltont street, Philadelphia.

**Stores (2) and Apartments**, Southwest Corner Broad and Dickinson streets, and alts. to same building. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, G. W. Fehr, care of architects. Brick, 2 stories, 18½x32 feet, slag roof, pine floors, hot water heat, electric light, plate glass, composition floors. Contract awarded to Golder Const. Co., Twentieth street near Spruce.

**Residence (alts. and add.)**, 2039 Locust street, Philadelphia, \$22,000. Architect, private plans. Owner, M. B. Ford, on premises. Brick, 3 stories, 14x18 feet, slag roof, oak and pine floors, electric work, tile work, general alterations. Contract awarded to William E. Hale, 1516 Summer street, Philadelphia.

**Factory (add.)**, Northwest Corner Sixth and Spring Garden streets, \$10,000. Architect, private plans. Owners, Philadelphia Belting Co., on premises. Brick, 5 stories, 19x50 feet, slag roof, steel sash, cement floors, iron work, hardware (plumbing, heating and electric work reserved). Contract awarded to William J. Gruhler Co., 219 East High street.

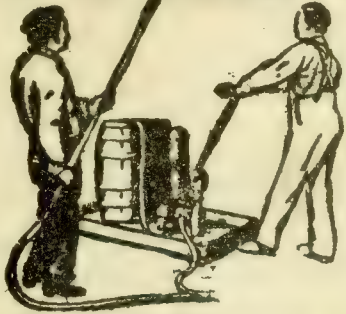
**Store (alts.)**, 1306 Chestnut street, Philadelphia, \$8,000. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owners, F. A. North Co., on premises. Carpentry, mill work, general alterations. Contract awarded to Frank G. Stewart, 1619 Sansom street.

**Office (alts. and add.) and Factory**, North side Huntingdon street, West of Reese, and 2653-59 North Reese street, \$18,000. Architect, private plans. Owners, Quaker City Morocco Co., on premises. Brick, 1 story, 4x16 feet, slag roof, linotile floors, steam heat, general alterations, factory, brick, 2 stories, 44x60 feet, yellow pine floors, steam heat, electric light, steel sash. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

**Residence and Store (add. and alts.)**, 4804 Frankford avenue, \$8,000. Architect, private plans. Owner, Robert Ashby, on premises. Brick, 2 stories, 20x30 feet, slag roof, general alterations. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

**Garage, Store and Residence**, 4349-53 North Seventh street, \$15,000. Architect, private plans. Owner, Adolph Moell, Eighth and Wingohocking streets, Philadelphia. Brick,

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2 stories, 51x26 feet, and 2 stories, 15x34 feet, slag roof, oak, pine and cement floors, electric lighting. Contract awarded to G. J. Reich, 5126 North Tenth street, Philadelphia.

**Residence (add.)**, South side Clarkson avenue, East of Twenty-first, also **Boiler Room (add.)**, \$8,300. Owners, Mrs. James Starr, Twenty-first and Olney avenue, Philadelphia. Brick, 3 stories, 9x8 feet, boiler room, 34x12 feet, slag roof, electric work. Contract awarded to John J. Murphy, 5965 Stenton avenue.

**Residence and Store (alts. and add.)**, 1153 East Passyunk avenue, \$5,000. Architect, private plans. Owner, Anthony Coppola, on premises. Brick, 2 stories, 12½x20½ feet, slag roof, oak and pine floors. Contract awarded to N. Seurci, 2640 South Twelfth street, Philadelphia.

**Business Building (alts. and add.)**, 2455 South Camac street. Architect, private plans. Owner, William H. Hughes, 2502 South Alter street, Philadelphia. Brick, 2 stories, 14x10 feet, general alterations. Contract awarded to A. Costegena, 1807 South Twelfth street, Philadelphia.

**Residence and Store**, 4510 Salmon street, Philadelphia, \$4,500. Architect, private plans. Owner, John Gushem, 4504 East Thompson street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak and pine floors. Contract awarded to C. Lakowica, 4655 Torresdale avenue.

**Residence (add.)**, Northwest Corner Nava-hoe and Willow Grove avenue, \$4,200. Architect, Herman L. Duhring, 1309 Locust street, Philadelphia. Owner, Eric Pearson, on premises. Brick, 2 stories, 18x28 feet, slag roof, oak and pine floors. Contract awarded to James Riley & Son, Forrest avenue, Mt. Airy.

**Residence and Store (add.)**, 5727 Chester avenue, \$4,000. Architect, private plans. Owner, Thomas Buslm, Sixty-first and Greenway avenue, Philadelphia. Brick, 1 story, 16x16 feet, slag roof, oak and pine floors. Contract awarded to John E. Crawford & Co., 747 South Fifty-first street.

**Garage**, 1606 North Twenty-seventh street, Philadelphia, \$3,500. Architect, private plans. Owner, Gottlob Woerner, on premises. Brick, 1 story, 89x17 feet, slag roof, cement floors. Contract awarded to M. Shoemaker, 5724 North Mascher street.

**Factory (repairs)**, Northwest Corner Godfrey street and Stenton avenue, \$3,500. Architect, private plans. Owners, J. & J. Dobson, 809 Chestnut street, Philadelphia. Carpentry. Contract awarded to E. H. Keefer, 1321 Rodman street, Philadelphia.

**Residences (44)**, Fifty-fourth and Windsor and Fifty-fourth and Warrington avenue. \$150,900. Owner, John I. Somers, Twentieth and Snyder avenue, Philadelphia. Brick, 17x40 feet, 18x30 feet and 15x40 feet, 12x11 feet, oak and pine floors, electric lighting. Contract awarded to Alex. C. Cowan, 552

North Sixty-third street, Philadelphia.

**Shop**, 2410 West Howard street, Philadelphia, \$2,000. Owner, George Childs, 2531 Lehigh avenue, Philadelphia. Brick, 1 story, 36x31 feet, slag roof, pine floors. Contract awarded to T. G. Shoemaker, 2829 West Harold street.

**Apartment (alts.)**, 1434 North Seventeenth street, Philadelphia, \$2,000. Owner, E. E. Hanscom, 734 Market street, Philadelphia. General alterations. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

**Residence and Store (alts. and add.)**, 340 South Nineteenth street, Philadelphia, \$2,700. Architect, private plans. Owner, W. H. McCandless, 326 South Nineteenth street, Philadelphia. Brick, 1 story add., 4x13 feet, general alterations. Contract awarded to Acme Const. Co., 2025 North Sixty-second street, Philadelphia.

**Garage**, Southwest Corner Thirty-fourth and Huntingdon streets, Philadelphia, \$21,595. Architect, private plans. Owner, Hudson Lake, 2612 West Somerset street, Philadelphia. Brick, 1 story, 70x125 feet, slag roof, cement floors, steel sash, electric light. Contract awarded to Harry Feldman, 425 Victory Building.

**Garage**, 208-10-12 Pine street, Philadelphia, \$12,000. Architect, private plans. Owner, Margaret Flaherty, 249 South Forty-sixth street, Philadelphia. Brick, 2 stories, 63½x102 feet, slag roof, cement floors. Contract awarded to Joseph M. Flaherty, 249 South Forty-sixth street.

**Store (alts. and add.)**, 926-28 South street, Philadelphia, \$7,800. Architect, private plans. Owner, M. Kaiserman, 6210 Carpenter street, Philadelphia. Brick, 3 stories, 20x30 feet, slag roof, general alterations. Contract awarded to S. Yellin, 3125 Montgomery avenue.

**Stores and Offices**, 4659-63 Frankford avenue, Philadelphia, \$7,000. Owner, William Goldstein, Liberty Building, Philadelphia. Brick, 2 stories, irregular size, slag roof, electric work. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

**Cloak Room Addition**, Northwest Corner Eighteenth and Courtland streets, \$6,500. Owners, Friedberger-Aaron Mfg. Co., on premises. Brick, 1 story, 19x104 feet, slag roof, electric lighting. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Residence (add.)**, 25 Summit street, Philadelphia, \$2,500. Architect, private plans. Owner, John E. Zimmerman, on premises. Stone, second story add., 15x7 feet, slate roof, oak and pine floors. Contract awarded to John E. Walt, 204 East Willow Grove avenue.

**Garage**, 4719 Chester avenue, Philadelphia, \$2,000. Architect, private plans. Owner, James A. Maroney, on premises. Brick, 1 story, 20x37 feet, slag roof, cement floors. Contract awarded to Carr & Courtney, Twenty-third and Green streets.

**Garage**, Southwest Corner Osceola and Pastorius streets, \$5,000. Architect, private plans. Owners, Bergman Knitting Mills, on premises. Brick, 1 story, 48x17 feet, 85x17 feet, and 8x22 feet, slag roof, cement floors, electric lighting. Contract awarded to John De Paul & Brother, 80 East Sharpnack street.

**Residence (add. and alts.)**, 324 North Twen-

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ty-first street, Philadelphia, \$2,700. Architect, private plans. Owner, Anna R. Stevenson, 601 North Seventeenth street, Philadelphia. Brick, 2 stories, 10x16 feet, slag roof, general alterations. Contract awarded to Samuel Rea & Son, 1608 Fairmount avenue.

**Residence and Store (alts.),** 406 South Twentieth street, Philadelphia, \$2,300. Architect, private plans. Owner, J. M. Ken-

nedy, 2018 Spruce street, Philadelphia. General alterations. Contract awarded to Thomas J. Hamilton, Jr., 151 North Paxon street.

**Store and Garage,** 407 West Hottter street, Germantown, Philadelphia. Architect, private plans. Owner, Henry Benedict, on premises. Stone, slate roof, cement floors. Contract awarded to Albert E. Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia.

## PENNSYLVANIA Construction News

**Moose Home (alts. and add.),** Tamaqua, Pa. Architect, Benjamin R. Stevens, Inc., 1737 Filbert street, Philadelphia. Owners, L. O. O. M., Tamaqua Council, Tamaqua, Pa. Brick. Architect taking bids due April 9th.

**Chapel,** Mercersburg, Pa. Architects, Cram & Ferguson, 245 Boylston street, Boston, Mass. Owners, Mercersburg Academy, care of Prof. J. M. Drum, Mercersburg, Pa. Stone, slate roof. Plans in progress. Architects will be ready for bids in six weeks.

**Parochial School,** Cheltenham, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of the Presentation of the B. V. M., Rev. James J. Gibbons, Cheltenham, Pa. Architect taking bids due April 9th.

**Residence,** Villa Nova, Pa. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, George Franham Brown, Villa Nova, Pa. Stone and cut stone, 2½ stories, 29x41 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Architect taking bids due April 10th.

**Nine-Bin Steel Coal Trestle,** Lancaster, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Concrete work, carpentry, painting, bond, iron work, 184 feet long. Owners taking bids due April 9th.

**Nurses' Home,** Eaglesville, Pa. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Eaglesville Sanitarium, Eaglesville, Pa. Brick and frame, 2 stories, 53x40 feet, slate roof, oak and pine floors, steam heat, electric light, tile work, bond, iron work. Architect taking bids due April 6th.

**Residence,** Coatesville, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, Benj. Aronsohn, Coatesville, Pa. Stone and cut stone, 2 stories, 47x29 feet, wing 19x20 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, bond, iron work. Owner taking bids.

**Parochial School and Convent,** Ridley Park, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Madeline's Roman Catholic Church, Rev. William J. McCallum, Ridley Park, Pa. Stone and steel, 2 stories and auditorium, 69x52 feet, wing 26x40 feet, slag roof, hot water heating, electric lighting, composition floors, bond. Revised plans in progress.

**Residence,** Watertown, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Frank F. Wagner, care of Watertown Door & Sash Co., Watertown, Pa. Frame, 2½ stories, 28x36 feet, shingle

roof, hardwood and composition floors, electric light, tile work (heating reserved). Plans in progress.

**Passenger Station,** Lancaster, Pa., \$300,000. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, 1 story and 2 stories, 55x200 feet. Preliminary plans in progress.

**Residence,** Pennside, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, Harry W. Koch, 341 West Douglas street, Reading, Pa. Brick, stone foundations, 2½ stories, 36x26 feet, slate roof, oak and pine floors, hot water heat, electric light. Plans in progress.

**Twin Residence,** Springmont, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, William H. Leiby, 530 Franklin street, West Reading, Pa. Brick, 2½ stories, 30x52 feet, slate roof, pine floors. electric light, cement work. Plans in progress.

**Masonic Hall (alts.),** Carbondale, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Hall Association, of Carbondale, Pa. Brick, 4-story building, interior alterations, lighting fixtures, hardwood floors, redecorating, ventilations. Plans in progress.

**Garage and Apartments,** 536 Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford. Owner, Elwood Egoff, Fourth and Main streets, Royersford, Pa. Brick, frame, 2 stories, 30x42 feet. slate and tin roof, concrete and maple floors (heating, plumbing, lighting reserved), metal lath, plumbing, wood and steel sash. Plans in progress. Owner will take bids.

**Residence and Garage,** Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Samuel Merkel, 425 Walnut street, Royersford, Pa. Brick and stucco, hollow tile, 2½ stories, 20x45 feet. asbestos roof, oak and maple floors (heating, plumbing and lighting reserved), metal lath, plumbing, wood sash, dumb waiter, bond. Plans in progress. Owner will take bids.

**Residence,** Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John M. Strough, Arch street, Spring City, Pa. Hollow tile and brick, stucco, 2½ stories, 20x45 feet, slate roof, oak and yellow pine floors, hollow tile, metal lath, tile work (heating, plumbing and lighting reserved), bond, terra cotta work. Plans in progress. Owner will take bids.

**High School (alts. and add.),** Swarthmore, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Swarth-

more High School, H. C. Stuart, superintendent, College avenue, Swarthmore, Pa. Brick, cut stone, steel and concrete, 2½ stories and basement, 106x66 feet, wing 98x60 feet, slag, composition and slate roof, cement and maple floors, hollow tile, safety treads, roof ventilators, metal ceilings, waterproofing, iron work, floor hardener, bond, kalamein doors, metal lath, tile and terrazzo work. Bids due April 10th.

**Twin Residence,** Highland Park, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, W. Le Roy Hart, care of William Craven & Sons, Fifty-eighth and Chester avenue, Philadelphia. Stone and stucco, 2½ stories, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner is taking bids.

**Residence,** Wynnewood, Pa. Architect, Ralph E. Colton, 225 South Sydenham street, Philadelphia. Owner, Carrow Thibault, care of architect. Stone, 2½ stories, 60x25 feet, shingle roof, oak and pine floors, tile work. Architect taking bids due April 7th.

**Residences (2),** Bala, Pa. Architect, Allen Decker, Narberth, Pa. Owner, name withheld. Hollow tile and stucco, 2½ stories, 30x40 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Architect taking bids due April 7th.

**Office Building and Stores,** Elizabethtown, Pa. Architect, Guy King, 1513 Walnut street, Philadelphia. Owners, Cassidy Co., Elizabethtown, Pa. Brick, steel and concrete, 6 stories, hot water heating, electric lighting, elevators, tile and marble work. Plans in progress.

**Bungalow,** Pocono, Pa. Architect, Guy King, 1513 Walnut street, Philadelphia. Owner, Dr. Judd, Washington, D. C. Stone and hollow tile, 1½ stories, 36x58 feet, slate roof,

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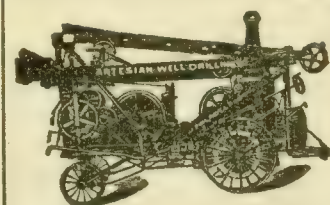
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hardwood floors, electric light, tile work. Plans in progress.

**Residence, Hazleton, Pa.** Architect, Guy King, 1513 Walnut street, Philadelphia. Owner, name withheld. Stone, brick and hollow tile, 2½ stories, 34x46 feet, slate roof, hardwood floors, electric lighting, plumbing, tile and marble work, small passenger elevator. Plans in progress.

**Residence, Sunbury, Pa.** Architect, Guy King, 1513 Walnut street, Philadelphia. Owner, Dr. J. L. C. Able, Williamsport, Pa. Hollow tile and stucco, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Residence, Jenkintown Manor, Pa.** Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, Kuhn & Lowery, Fifth and Rockland streets, Philadelphia. Stone, 2½ stories, 26x31 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners are ready for bids.

**Bank and Office Building, Shamokin, Pa.** Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Guaranty Trust & Safe Deposit Co., Shamokin, Pa. Brick, granite, reinforced concrete and steel, 1 story and mezzanine, 95x50 feet, asbestos built-up roof, cork tile and cement floors, hollow tile, metal ceilings, iron work, bond, rolled steel sash, tile and marble work, metal lath, electric lighting, steam heating. Architect taking bids due April 11th.

## Pennsylvania Contracts Awarded

**Art Gallery, Administration Building and Service Building, Merion, Pa.** Architect, Paul P. Cret, Otis Building, Philadelphia. Owner, Dr. Alfred Barnes, Merion, Pa. Brick, reinforced concrete, stucco, steel and cut stone, 1, 2 and 2 stories, 156x50 feet, 68x48 feet, wing 24x21 feet and 52x59 feet, tile and composition roof, marblod, oak and cement floors, hollow tile, waterproofing, iron work, floor hardener, bond, rolled steel skylights, hollow metal sash, tile and marble work, metal lath, steam heating, electric lighting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Service Station, Pottsville, Pa., \$40,000.** Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Neel Cadillac Co., Pottsville, Pa. Brick and steel, 1 story, 80x120 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded to R. T. and C. D. Stewart, Easton, Pa.

**Residence, Haverford, Pa.** Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Charles L. Taylor, 1011 Chestnut street, Philadelphia. Hollow tile and stucco, 2½ stories, 32x28 feet, shingle roof, oak and pine floors, hot water heating, electric light. Contract awarded to Milton W. Young, 2037 North Sixty-third street.

**Twin Residences (2 pairs), Northeast Corner Old Lancaster avenue and Latches Lane, Montgomery County, Pa.** Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Philip Malickson and Bernard R. Cohn, 1423 Vine street, Philadelphia. Hollow tile and stucco, 2½ stories, 34x75 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work, garages attached. Contract awarded to George B. Smith, 606 North Sixteenth street, Philadelphia.

**Parochial School, Oakmont, Delaware County, Pa.** Architect, John A. McKibbin, Industrial Trust Bldg., Wilmington, Del. Owners, St. Denis' Roman Catholic Church, Rev. F. F. Commins, O. S. A., Oakmont, Delaware County, Pa. Brick, reinforced concrete, cut stone and steel, 2 stories, 81x57 feet, asphalt

built-up roof, cement, pine and oak floors, electric light, metal lath, tile and marble work, rolled steel sash, bond, waterproofing, terra cotta (heating and plumbing reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building, Philadelphia.

**Stores (3) and Apartments, Ardmore, Pa.** Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Harrison, care of architect. Brick and limestone, 2 stories, 50x58 feet, slag roof, hardwood floors, metal ceilings, flush bulks, tile work, hot water heating, electric lighting, marble work. Contract awarded to Charles C. Pace, Merion, Pa.

## New Jersey Construction News

**Residence, Atlantic City, N. J.** Architect, Donald A. Rosenstein, Humphreys Building, Atlantic City. Owner, Emmanuel Katz, Press-ton Apartments, Atlantic City, N. J. Brick, 2½ stories, 40x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Apartment, Atlantic City, N. J.** Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, structural iron, 3 stories, 35x87 feet, slag roof, pine floors, hollow tile, hot water heat, electric light, metal lath, tile work, rolled steel sash. Architect ready for bids.

**Apartment, Atlantic City, N. J.** Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Harry Hantman, 427 North New Hampshire avenue, Atlantic City. Brick, steel, 3 stories, 33x136 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

**Bungalow Operation, Margate City, N. J.** Architect, Donald A. Rosengarten, Humphreys Building, Atlantic City. Owner, J. J. Cassidy, 109 South Tennessee avenue, Atlantic City. Frame, 1 story, various sizes, shingle roof, pine floors, electric lighting. Owner will build.

**Apartment House, Atlantic City, N. J.** Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Youtie & Green, Atlantic City, N. J. Brick, concrete, 3 stories, 40x140 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile, marble work. Architect taking bids due April 5th.

**Stores, Dining Room and Alts. to Building, South New York avenue, Atlantic City, N. J.** Architect, Bertram C. Ireland, Guarantee Trust Building, Atlantic City. Owners, Weinman Brothers, Atlantic City, N. J. Brick and steel, 2 stories, 90x38 feet, slag roof, pine floors, hot water heat, electric light, tile work, terra cotta, iron work. Architect taking bids.

**Municipal Poultry Market, Atlantic City, N. J.** Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, Department of Streets and Public Improvements. Low bidder: F. Molinara Co., Chalfonte and Pacific avenues, Atlantic City.

**High School, West Orange, N. J.** Architects, Guilbert & Betelle, Newark, N. J. Owners, School Board of West Orange, N. J. Lowest bidders: Bart, Shaw & Frazier, Hoboken, N. J., \$296,733; Bowie & Millerman, Union Hill, N. J., \$297,400. Plumbing, A. Taffe, Newark, N. J., \$21,101. Heating, E. G. Britz, New York City, \$48,900. Electric, Beaver Eng. Co., Newark, N. J., \$11,384. Grading, William Neill & Son, Verona, N. J., \$15,500.

**Residence, Bridgeton, N. J.** Architect, Guy King, 1513 Walnut street, Philadelphia. Owner, L. H. Ewing, Bridgeton, N. J. Hollow

tile and stucco, 2½ stories, 30x46 feet, slate roof, electric lighting, hardwood floors. Plans in progress.

**Sales and Service Building, Federal street, near Seventeenth street, Camden, N. J.** Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Neel Cadillac Co., 142 North Broad street, Philadelphia. Brick, cut stone and steel, 1 story, 200x115 feet, slag roof, cement floors, waterproofing, iron work, bond, tin-clad doors, hollow metal sash, metal lath. Architects taking bids due April 5th.

**High School, Haddon Heights, N. J.** Architect, Charles R. Peddle, 129 South Fourth street, Philadelphia. Owners, Board of Education, Borough of Haddon Heights, M. B. Duffy, secretary, Haddon Heights, N. J. Brick, concrete, granite, limestone, cut stone and steel, 3 stories and basement, 236x73 feet and 77x55 feet, slag roof, pine and cement floors, hollow tile, waterproofing, iron work, flortyle, tin-clad and kalamein doors, tile and marble work, metal lath. Certified check for \$1,000. Owners taking bids due April 17th.

**Cottage, May's Landing Road, Port Elizabeth, N. J.** Architect, Guy King, 1513 Walnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 20x32 feet, shingle roof, electric lighting. Plans in progress.

**Elks' Club House, Pennsgrove, N. J.** Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Pennsgrove B. P. O. E., Pennsgrove, N. J. Brick, cut stone, concrete and steel, 2 stories and basement, 87x49 feet, asbestos shingle roof, composition and pine floors, roof ventilators, sheet metal ceilings, dampproofing, tile work, steam heat, electric light. Lowest bidder: William A. Elmore, 14 East Union street, Pennsgrove, N. J. (I. L. Goldman, Pennsgrove, chairman, Building Committee.)

**Freight House, East Trenton, N. J.** Architect, private plans. Owners, Philadelphia & Reading Railway Co., Twelfth and Market streets, Philadelphia. Brick and steel, 1 story, 30x75 feet, built-up asbestos roof, pine floors, iron work, bond, rolled steel sash, electric lighting. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

## Miscellaneous Construction News

**Church (add.), Wilmington, Del.** Architect, W. E. Hance, 2301 Spruce street, Philadelphia, and Wilmington, Del. Owners, McCabe Memorial Church, Wilmington, Del. Stone. Plans in progress.

**Bungalow, Arlington, Md.** Architect, Guy King, 1513 Walnut street, Philadelphia. Owner, name withheld. Frame, 1½ stories, 24x60 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

**Y. M. C. A., Cumberland, Md.** Architects, Shattuck & Laver, 19 La Salle street, Chicago, Ill. Owners, Y. M. C. A., Cumberland, Md. Reinforced concrete, brick, cut stone and steel, 3 stories, 190x104 feet, composition roof, cement and maple floors, metal window guards, waterproofing, iron work, floor hardener, bond, hollow metal doors and skylights, sheet metal sash, tile, marble and terrazzo, metal lath. Architects taking bids.

**Residence and Store, Wilmington, Del.** Architect, J. A. McKibbin, Industrial Tr. Bldg., Wilmington, Del. Owner, Edward F. Vogel, Sixth and Anchorage streets, Wilmington, Del. Brick, 2 stories and basement, 30x35 feet, store fixtures, pine floors, electric lighting. Contract awarded to Peter W. Newell & Son, Wilmington, Del.



## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 28, 1923. Sealed Proposals will be opened in this office at 3 P. M., April 25, 1923, for construction (except mechanical equipment) of additional buildings, including quarters for ambulant patients, semi-ambulant patients, male attendants, female attendants, nurses and aids, residences for officers, and administrative assistants, boiler house and smoke stack, roads and approaches, for the United States Veterans' Hospital, at Chelsea, New York. Drawings and specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment, and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 28, 1923. Sealed Proposals will be opened in this office at 3 P. M., April 25, 1923, for the mechanical equipment (exclusive of lighting fixtures and kitchen equipment) for the ambulant, semi-ambulant, male attendants', female attendants', nurses' and aids' administrative assistant, double officer's quarters, officer in charge and boiler house buildings, and outside services, at the United States Veterans' Hospital, Chelsea, N. Y. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

### Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for April 1, 1923.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., Perry Building, Philadelphia.

Owners, Louis S. DeLone, 6419 Drexel road, Philadelphia; Samuel R. McDowell, Narberth, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,

Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 23rd day of March, 1923.

Hugh Roberts, Notary Public.

(My commission expires April 15, 1925.)

## COMBINATION HEATING SYSTEMS FOR MILD WEATHER

*An Improvement for Homes that Will Be a Good Sales Talking Point as it Means Added Comfort and Convenience.*

BY CHARLES L. HUBBARD, M. E.

The satisfactory warming of a building in mild weather is usually a difficult matter, unless equipped with a system of automatic control, and even then waste of fuel is likely to occur through allowing the fire to gain excessive headway in order to force heat into distant or especially exposed rooms.

The purpose of the present article is to suggest combination systems whereby the amount of heat generated may be more nearly proportioned to actual requirements and also better distributed.

Among the possible combinations of this kind may be mentioned hot water with hot air, hot water with steam, and hot air with either steam or hot water.

While such combinations may often be used to advantage from time to time throughout the heating season, their greatest benefit is usually derived through temporary operation during the milder weather of spring and fall when the full capacity of the main heating system is not required, and in the case of special rooms during extremely cold or windy days in mid-winter.

For example, a direct system of steam heating may work satisfactorily during the winter, but overheat the rooms in mild weather, thus causing both discomfort and waste of fuel. An arrangement for operating the boiler temporarily as a hot-air furnace of moderate capacity will often greatly improve results in a case of this kind.

Other instances where auxiliary heating may prove an advantage occur in buildings where the main portion is satisfactorily cared for by the hot-air furnace, but where it is difficult, if not impossible, to warm one or more rooms remotely and badly located. If served at all, such rooms usually make it necessary to force the furnace beyond its economical capacity, thus overheating other rooms and wasting fuel.

Having noted some of the needs for combinations of this kind, let us consider them briefly in such detail as may enable the builder to place accurately before the heating subcontractor just what is required as to results and the general methods to be employed in order to secure them.

### Hot Water Combined With Hot Air

This is most frequently applied to third-floor rooms and to servants' quarters which may be located over an ell and not easily reached by hot air pipes

from a furnace centrally placed under the main part of the house. Such conditions do not usually call for the warming of more than two or three small rooms at the most, and these are best cared for by installing hot-water radiators and connecting them with either a coil or other form of heating surface placed in the furnace.

This may consist either of a coil suspended in the combustion chamber above the fire, or it may extend around the firepot in contact with the fuel. Some makes of furnaces are provided with cast-iron heater sections which may be substituted for a small portion of the regular firebrick lining.

Ready-made heaters are also upon the market which may be suspended above the fire and connected with the outside piping through openings tapped in the furnace plates.

The general arrangement for a system of this kind so far as the radiators and piping are concerned, does not differ from the ordinary methods of hot-water heating.

Care, however, is required in work of this kind to obtain the right proportion between the heating surface in the furnace and the radiation, in order to get sufficient heat and still not cause boiling in the system when the furnace is forced in cold weather.

The following proportions, as recommended by William G. Snow, are probably as satisfactory as any for average operating conditions.

Type and Location of Heating Surface	Square Foot of Heating Surface
Cast-iron sections suspended above fire	15 to 20
Cast-iron sections in contact with fire	40 to 60
Pipe coil suspended above fire	20 to 25
Pipe coil buried in fire	50 to 60

For heating surface buried in the fire it should be remembered that its effectiveness decreases with the depth to which it is buried. The size of the furnace for a combination system of this kind should be computed the same as though the entire work were to be done by hot air, including the rooms to be warmed by radiators.

### Hot Water Combined With Steam Heating

The principal use of combinations of this kind is in connection with industrial buildings where the main work rooms are satisfactorily heated by direct steam coils but where the advantages of hot water heating are desired in offices, drafting rooms, etc., or other special cases where better temperature regulation is required.

In cases of this kind the special rooms



are piped for hot-water heating in the usual manner, and the main supply and return pipes connected with a steam coil heater instead of a boiler.

Temperature control for one or two rooms closely connected may be obtained by means of an electric room thermostat connected with a special diaphragm valve in the steam supply to the coil.

Another arrangement is to connect an ordinary hot-water tank thermostat with the flow pipe to the radiators at some accessible point, and vary the water temperature, as may be necessary, by adjusting the indicator of the thermostat.

For the conditions shown, each square foot of brass coil surface in the tank should supply from 40 to 50 square feet of direct cast-iron radiation. The lower figure being for steam at 5 pounds pressure and the higher for 10 pounds.

In many cases a standard feed water heater will be found more convenient, in which case it will usually be necessary to reverse the connections. That is, connect the supply and return heating mains with the outlets designed for steam, in order to get the necessary area. If this is done the heater must be so erected that the condensation will drain properly to the trap.

#### *Hot Air Heating Combined With Steam or Hot Water*

This arrangement is brought about by enclosing the boiler and an extended smoke pipe within a brick chamber, thus making of it a warm-air furnace with a limited amount of heating surface. An air supply is brought into the bottom of the chamber, either by means of a return register from the hall above, or from out of doors, as may be desired, and a hot-air connection carried to the first floor as indicated.

The object of this scheme is to utilize a portion of the heat generated by a low fire during the night, or in mild weather, when the full capacity of the heater is not desired.

As a matter of fact, considerable fire may be carried without producing sufficient steam pressure to fill the supply pipes, so that as far as warming the rooms above is concerned, the fuel burned under this condition is practically wasted.

While it is true that a certain amount of heat is radiated into the basement, it does very little good as regards the rooms above. Sufficient heat may often be supplied to warm the main hall or living room and take off the chill from the rest of the house without getting up pressure at all, a desirable feature in mild weather.

Sometimes an indirect heating stack is placed directly above the boiler, in the brick chamber, which will be kept warm by vapor generated below atmospheric

pressure and thus add to the heating capacity.

While this combination may be made either with steam or water, its fullest advantage is obtained with the former because there is greater opportunity for improvement under these particular conditions.—*Building Age*.

#### SUGGESTIONS FOR MAKING PARTITIONS SOUNDPROOF

A study of the problems of making partitions soundproof has been made by the engineering experiment station at the University of Illinois, Urbana, Ill. Because certain principles of sound transmission are overlooked, partitions that would ordinarily be an effective barrier to sound occasionally fail to function as expected, and some of the possible reasons are pointed out in a bulletin (No. 127), reviewing the study of the subject at the experiment station. Sound may be transmitted from one side of a partition to the other in three ways, it is stated in the bulletin. It may progress through continuous air passages, it may pass as an elastic wave through the solid structure of the partition, or by setting the partition in vibration it may originate sound waves on the further side.

"These actions are quite readily understood," according to the bulletin, "by remembering that sound consists of a series of compressions and rarefactions that progress rapidly through a medium without interruption unless they meet new medium with a different elasticity or density. For instance, sound waves in air proceed without hindrance through air passages, such as ventilation openings in a partition. If, however, the passages are small in cross-section, as in the case of a porous material, the progress is hindered and a certain amount of absorption of the energy takes place due to the friction set up between the vibrating air column and the sides of the pores.

"In case the partition is impervious to air, the direct progress of the waves is interrupted. A third partition is set in vibration, and thus originates new waves on the side opposite the incident sound. For a thicker, more rigid partition, the vibrations are smaller, and a very considerable part of the energy is reflected. The transmission in this case takes place by compressional waves communicated to the solid material of the partition. The amount of energy thus transmitted is usually quite small.

"In view of these considerations, a soundproof partition should be as rigid and free from air passages as possible. For effective sound-proofing of a group of rooms, the partitions, floors, and ceilings between adjacent rooms should be made continuous and rigid. Any neces-

sary openings for pipes, ventilators, doors, and windows should be placed in outside or corridor walls, where a leakage of sound will be less objectionable.

"In case the sound is generated in the building structure, as the vibrations set up by a motor fastened to the floor, the compressional waves proceed through the continuity of solid materials. In order to stop them, it is necessary to make a break in the structure so as to interpose a new medium differing in elasticity and density. For instance, the vibrations of a motor may be minimized by placing a layer of hairfelt, or similar air-filled material, between the supporting base and the floor. Where the machine is quite heavy, footings may be made of alternate layer of asbestos, lead and leather. Bolt- ing through this material will reduce the insulation, because the vibrations in this case will pass easily through the bolts to the floor. The insulation should thus be left without any bridging over of discontinuities. Air gaps in masonry will be effective if the air space is not bridged over at any point. A floor floated on sand, sawdust, or hairfelt would approximate this condition. The edges of the floor should be insulated from the walls by felt or similar material.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.



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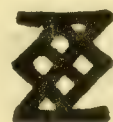
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April 11, 1923

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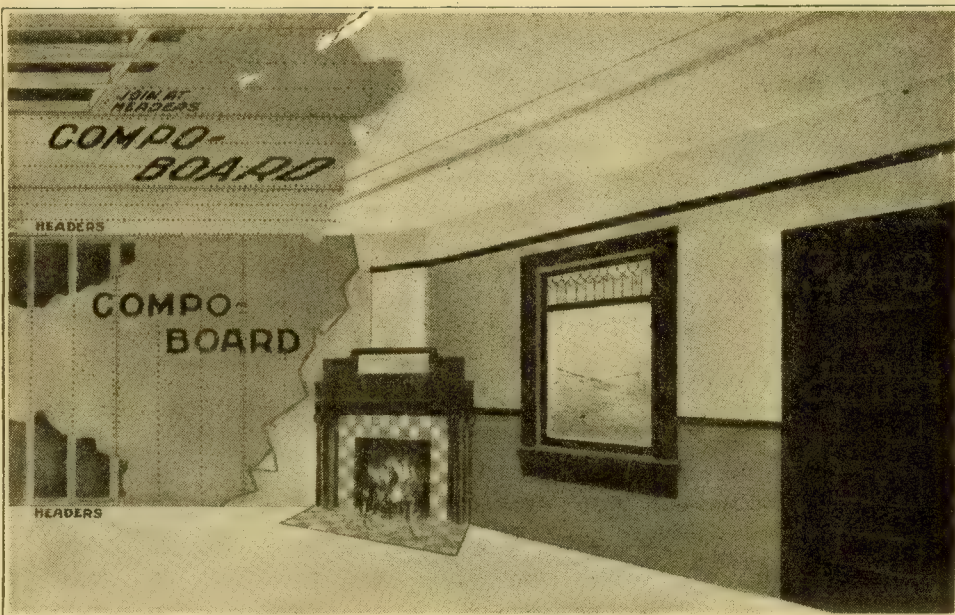
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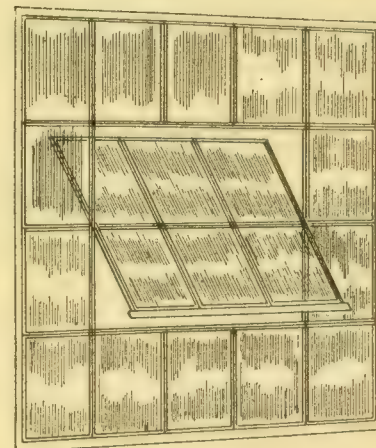
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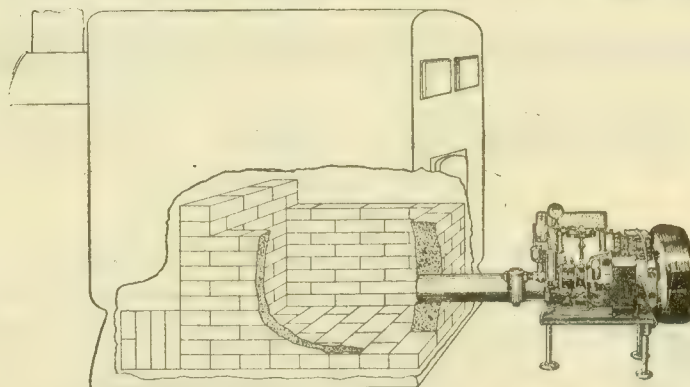
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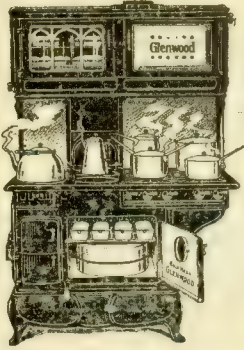
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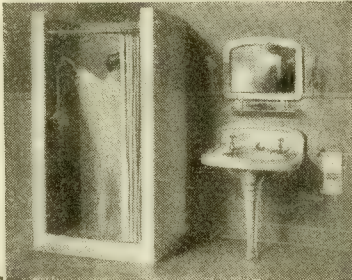
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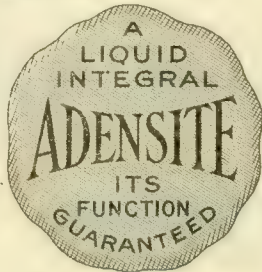
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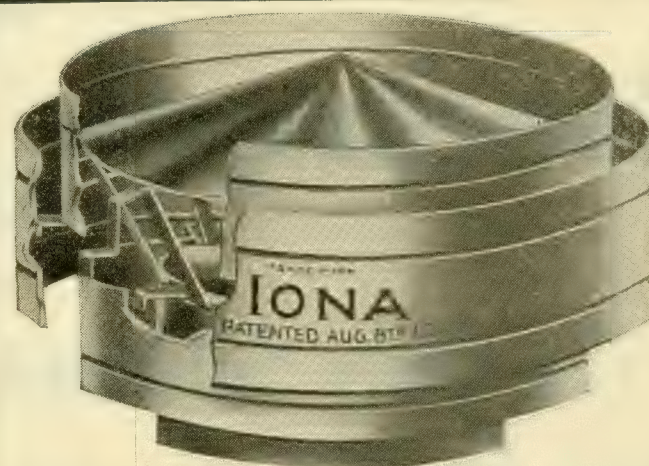
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Devoted to the Advancement of American Architecture, Structural  
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VOLUME XXXVIII  
Number 15

PHILADELPHIA  
April 11, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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## Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Service Station (alts. and add.),** Brandywine street, East of Broad street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Walz Auto Equip. Co., 1343 Brandywine street, Philadelphia. Preliminary plans in progress. Too early for details.

**Sales and Service Building (alts. and add.),** Twenty-ninth and York streets. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Walter Price, on premises. Plans in progress. Too early for details.

**Sales and Service Building,** Chelton, East of Wayne avenue. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Koelle Greenwood Co., 6025 Germantown avenue. Plans in progress. Too early for details.

**Store and Dwelling and Garage,** 6612-14 Germantown avenue. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Steel and concrete, 1 story, 60x450 feet, and brick, 2 stories, slag roof, pine and cement floors, roof ventilators, steam heat, electric light, tile work, plate glass. Plans completed. Architect ready for bids in a few days.

**Store and Apartments (alts. and add.),** Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. General alterations. Preliminary plans in progress.

**Store and Offices,** Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 2 stories, 40x40 feet, hardwood floors, hot water heat, electric light, plumbing, metal bulks. Plans in progress.

**Machine Shop,** Kensington, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod

street, Philadelphia. Owner, name withheld. Brick, slow burning, 1 story, 50x80 feet, slag roof, pine floors, steam heat, electric light, rolled steel sash, fire doors. Plans in progress.

**Building (Stores, Apartments and Hall),** Orthodox and Tackawanna streets, Frankford. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 3 stories, 32x16 feet, addition to old building, and new building, brick, 3 stories, 40x16 feet, slag roof, hot water heating, electric lighting, pine floors, general alterations to present building. Plans in progress.

**Manufacturing Plant,** Holmesburg, Philadelphia. Architects and engineers, The Balingier Co., Twelfth and Chestnut streets, Philadelphia. Owners, The Viscose Co., Marcus Hook, Pa. Brick, steel and concrete, various types of buildings, various sizes. Owners will build.

**Church and Sunday School,** Southeast Corner Fiftieth and Locust streets. Architects, Stuekert & Co., Crozer Building, Philadelphia. Owners, First Reformed Church, care of Rev. H. B. Kerschner, 4948 Locust street. Stone, brick, cut stone and artificial stone, 1 and 2 stories, 75x130 feet, slate roof, hardwood floors, vacuum heating, electric light, tile work, leaded glass, church seats. Architect taking sub-bids due as soon as possible.

**Apartment Houses (2),** Lincoln Drive, Philadelphia. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, steel and concrete, 2 stories, 18x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, marble work, ornamental plastering, metal window frames, cement work. Plans in progress.

**Residence (alts.),** Oak Lane, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, C. E. Lloyd, Oak Lane, Philadelphia. General alterations. Plans in progress.

**Garage,** 4538-40-42 Merion avenue, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, Mr. Powers, care of architect. Brick, steel and concrete, 1 story, 50x114 feet, slag roof, cement floors, steam heat, electric light, hollow metal skylights, structural steel work. Plans in progress. Architect will be ready for bids in one week.

**Residences (2) (two-family),** 3844 North Fifteenth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Ernest Adams, care of architect. Brick, 2 stories, 16x45 feet each, slag roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

**Telephone Exchange (add.),** Chestnut Hill, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, steel and stone. Plans in progress.

**Chapel and School Building,** location withheld. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Hugh's Roman Catholic Church, Rev. Hugh J. Dale, rector, 144 East Allegheny avenue, Philadelphia. Brick and stone. Plans in progress. Architect will be ready for bids in about one week.

**Store Building,** Third and Callowhill streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Beyer & Co., care of Charles Stahl, 235 Callowhill street. Reinforced concrete, brick and

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steel, 4 stories, 32x60 feet. Plans in progress.

**Moving Picture Theatre (alts.),** Eighty-fourth and Eastwick avenue. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owners, Eighty-fourth and Eastwick Avenue M. P. T., on premises. Rear add., brick, 1 story, 15 feet deep, galvanized iron vestibule and front, plumbing, stair work, general interior alterations. Owners are taking bids.

**Residence (alts. and add.),** 2743-45 Coral street, Philadelphia. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, name withheld. Brick, 2 stories, rear add., 36x60 feet, slag roof, hardwood and pine floors, cement work, hot water heat, electric light, tile work, plumbing, galvanized iron work, steel work, plastering, general interior alterations. Architect will be ready for general bids in one week.

**Industrial Bridge,** Twenty-fifth and Hunting Park avenue, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Edward G. Budd Mfg. Co., on premises. Brick, reinforced concrete and steel, 110 feet long, 14 feet wide, built-up roof, cement floors, waterproofing, iron work, bond, hollow metal sash, plumbing, painting, glazing (heating alterations). Architects taking bids due April 12th.

**Residences (2) (alts.),** 1810-12 Spring Garden street, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Great Heart Hospital, J. Russel Conwell, president, Broad and Berks streets, Philadelphia. New elevator shaft and elevator, inclines, cutting through partitions, general alterations. Architect taking bids due April 12th.

**Stores (alts. and add.) and Apartments (5),** 1239 North Thirteenth street. Architect, private plans. Owner, Ernest Varvautis, on premises. Brick work, stone work, hardwood and maple floors, slag roof, metal ceilings, bay windows, flush bulks, electric light, plumbing. Owner taking bids due as soon as possible.

**Residence,** Chestnut Hill, Philadelphia. Architect, R. W. Mecaskey, Otis Building, Philadelphia. Owner, Harry Landenberger, 2449 North Sixth street, Philadelphia. Brick and stucco, 2½ stories, 47x16 feet and 29x16 feet, slate roof, oak and pine floors, hot water heating, electric lighting. Architect taking bids due as soon as possible.

**Apartments (9),** South side Chestnut street, West of Forty-seventh, \$332,840. Architect, private plans. Owner, Thomas J. Whelan, Southeast Corner Forty-seventh and Chestnut streets. Brick, limestone and steel, 4 stories, 19x77x25 feet, slag roof, steam heat, electric light, metal lath, rolled steel sash, skylights, tile and marble work, oak and yellow pine floors. Owner will build.

**School Building,** Eighteenth and Moyamensing avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Lowest bids submitted by: William R. Dougherty, 1610 Sansom street, Philadelphia, \$486,471; Cramp & Co., Denckla Building, Philadelphia, \$493,600. Plumbing, Bulman Brothers, Fourth and Cumberland streets, \$21,266. Heating, S. Faith & Co., 2427 Pennsylvania avenue, \$46,400. Ventilating, W. Howlett Co., Fourth and Columbia avenue, \$1,526. Electric, Strang Electric Co., 214 South Seventh street, \$16,591.

**Painting,** various schools, Philadelphia. Agnew, James McAlpine, 1713 North Twenty-fourth street, \$1,525. Hamilton, A. Fleming & Son, 1916 Columbia avenue, \$3,900. Longfellow, H. W. Ehringer, 1237 Ridge avenue, \$1,665. North Western, A. Kuehnle, Seventeenth and Vine streets, \$3,750. Shippen, T. P. Fisher, 612 East Woodlawn avenue, \$2,328. Electric work, various schools: Fox

Chase, Walker Kepler, 531 Chestnut street, \$1,593; Berks, Walker Kepler, 531 Chestnut street, \$3,097; Henry, Walker Kepler, 531 Chestnut street, \$1,263; Bartram, Strang Electric Co., 214 South Seventh street, \$1,200; Olney, Strang Electric Co., 14 South Seventh street, \$1,230; Jenks, Strang Electric Co., 214 South Seventh street, \$2,162; Cramp, J. F. Buchanan, 1719 Chestnut street, \$4,833; Taggart, M. E. Arnold & Co., 1019 Cherry street, \$2,633.

**Residences and Garages (3),** 6430-32-34 North Twelfth street, \$21,000. Architect, private plans. Owner, P. Robin, 334 Harold street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and cement floors, electric lighting, tile work. Owner will build.

**Residences (7),** Thirty-third and Queen streets, Philadelphia, \$96,000. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Philadelphia. Stone, 3 stories, (5) 24x35 feet, (2) 23x35 feet, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**Residence,** West side Tenth street, South of Cheltenham avenue, \$12,000. Architect, private plans. Owner, Gilbert S. Smith, 1715 Chestnut street, Philadelphia. Hollow tile and brick, 3 stories, 109x22 feet, slag roof, hot water heat, electric light. Owner will build.

**Shop,** South side Sansom street, West of Fortieth street, Philadelphia, \$7,000. Owner, Frederick Broome, 4003 Sansom street, Philadelphia. Brick, 2 stories, 27x50 feet, slag roof, pine floors, electric lighting, hot water heating. Owner will build.

**Garage,** North side Green Lane, East of Boone street, \$7,000. Architect, private plans. Owner, C. H. Maurer, 4345 Main street, Philadelphia. Brick, 1 story, 191x20 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (2),** East side Belgrade, South of Orthodox, \$3,800 each. Architect, private plans. Owner, Stanley Bealas, 2606 Orthodox street, Philadelphia. Brick, 2 stories, 14½x41 feet, slag roof, electric lighting. Owner will build.

**Residences (3),** East side Lawndale street, South of Levick, \$3,800 each. Architect, private plans. Owner, James C. Lynch, 5815 North Fairhill street, Philadelphia. Brick, 2 stories, 16x33½ feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residence,** South side Cemetery Lane, East of Herschell Road, \$4,500. Architect, private plans. Owner, Charles T. Ely, Somerton, Pa. Frame, 2 stories, 32x45½ feet, hot water heating, electric lighting. Owner will build.

**Residence,** East side Whittaker street, South of Vista, \$2,500. Architect, private plans. Owner, Wm. W. Barley, 3417 North Howard street, Philadelphia. Frame, 1 story, 25x36 feet, shingle roof, pine floors. Owner will build.

**Residences (2),** South side Cottman, East of Northumberland, \$7,500. Architect, private plans. Owners, Louis Seifin, 1548 Cottman street, Philadelphia, and Edwin Kasklin, 817 Brooklyn street, Philadelphia. Frame, 2 stories, 20x35 feet, electric lighting. Owner will build.

**Residences (24),** West side Oakland, North of Pratt, \$125,000. Architect, private plans. Owners, F. P. and P. J. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 12x13 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**Residences and (2) Garages,** North side Queen street, West of Fox, \$12,000. Architect, private plans. Owners, Samuel Harting & Son, 20 East Johnson street, Philadelphia. Stone, 3 stories, 28x39 feet, 12x4 feet, slate roof, hardwood and cement floors, hot water

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**Residences and aGrages (70)**, Eighteenth street, Gratz street, Haines street and Sixty-eighth avenue, Philadelphia, \$374,400. Architect, private plans. Owners, W. Fischer's Sons, 4900 North Eighth street, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (22)**, Loney street, Castor Road and Ripley street, \$102,000. Architect, private plans. Owner, J. Fred Burkhart, 5519 North Fifth street, Philadelphia. Brick, 2 stories, 16x39 feet and 16x54 feet, slag roof, electric lighting. Owner will build.

**Residences (10), Stores (2)**, Second and Lindley avenue, \$36,000. Owner, Frank Storch, 426 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, (8) 15x27 feet, 11x9 feet, (1) 20x39 feet, and (1) 16x18 feet, slag roof, electric light. Owner will build.

**Residences (28)**, Twelfth and Grange avenue, Philadelphia, \$171,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 2 stories, (2) 20x50 feet, (26) 16x33 feet, 13x18 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (35)**, Seventeenth street, Bouvier street and Sixty-seventh avenue, \$171,600. Architect, private plans. Owner, George Ungerer, 4921 North Fairhill street, Philadelphia. Brick, 2 stories, 16x32 feet, hot water heat, electric light. Owner will build.

**Residence**, 1418 Wyoming avenue, Philadelphia, \$4,000. Architect, private plans. Owner, Harry G. Schaefer, 4830 Marvine street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Factory (alts.)**, Southeast Corner Seventh and Lehigh avenue, \$15,000. Engineer, P. M. Sax, Penfield Building, Philadelphia. Owners, Hardwick & Magee, 1220 Market street, Philadelphia. Carpentry, mill work, plastering, general alterations. Engineer will build.

**Residences (22)**, 4331-73 Edgemont street, Philadelphia, \$63,800. Architect, private plans. Owner, John Uber, 2740 North Sixteenth street, Philadelphia. Brick, 2 stories, 14x30 feet, 11x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (11) and Store (1)**, Tulpehocken and Osceola streets, \$72,500. Architect, private plans. Owner, R. A. O'Donnell, Broad and Cheltenham avenue, Philadelphia. Brick, (1) 3 stories, 16x9 feet, 16x41 feet, and (10) 2 stories, 16x31 feet, 12x10 feet, slag roof, hardwood floors, hot water heat, electric

light, tile work. Owner will build.

**Residences and Garages (10)**, Seventeenth and Haines streets, \$5,500 each. Architect, private plans. Owner, C. E. Apple, 1509 Sixty-eighth Avenue, Philadelphia. Brick, 2 stories, 18x29 feet, slag roof, hot water heat, electric light, hardwood floors. Owner will build.

**Residences (10)**, (2) 3316-18 East Thompson street, and (10) 3304-06-08-10-12, 3322-24-26 Edgemont street, \$50,000. Owner, Louis Goodavage, 3589 Richmond street, Philadelphia. Brick, 2 stories, 16x30 feet, 12x22 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (32)**, 255 to 265 Duval street, 6340 to 6366 Musgrave street, and 254-76 East Johnson street, Philadelphia, \$212,000. Owner, J. Charles Yundt, 301 Tabor road, Philadelphia. Brick, 2 stories, various dimensions, slag roof, hardwood floors, electric lighting. Owner will build.

**Residences (2)**, West side Martin Mill road, South of Magee street, \$5,500 each. Architect, private plans. Owner, Frank A. Adair, 6711 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (11)**, 1002-22 West Olney avenue, \$5,000 each. Architect, private plans. Owner, Charles A. Mahon, 5640 North Fifth street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x15 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (2)**, East side Jackson street, North of Kennedy, \$4,500 each. Architect, private plans. Owner, Charles Witzka, 1948 East Bridge street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, electric light. Owner will build.

**Residences (2)**, East side Walker street, South of Devereaux, \$2,500 each. Architect, private plans. Owner, J. G. Smith, 2918 Comly street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

**Shop**, 2871 Tulip street, Philadelphia, \$3,000. Architect, private plans. Owner, A. Ziff, 1948 East Monmouth street, Philadelphia. Brick, 1 story, 44x72 feet, slag roof, electric lighting. Owner will build.

**Garage**, 2344 North Marshall street, Philadelphia, \$2,000. Owner, Herman Hettinger, Seventh and Dauphin streets, Philadelphia. Brick, 1 story, 18x72 feet, cement floors. Owner will build.

**Residences (5)**, Marshall and Duncannon streets, \$32,000. Architect, private plans. Owner, Louis Mark, 2820 North Twenty-first street, Philadelphia. Brick, 2 stories, va-

rious sizes, hot water heat, electric light. Owner will build.

**Residences (36)**, Twentieth and Pittville avenue, \$183,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street. Brick, 2 stories, various sizes, slag roof, hardwood floors, electric lighting. Owner will build.

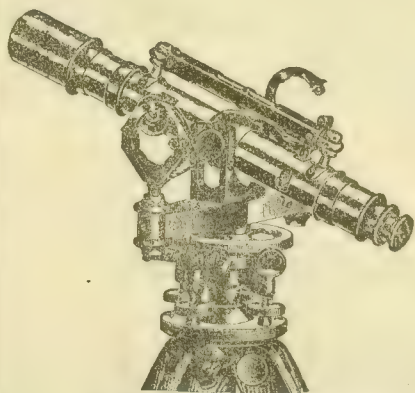
**Garages (19)**, 6717 Woodland avenue, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, William P. Roche Post, No. 21, American Legion, care of architect. Brick, 1 story, 67x75 feet over all, slag roof, cement floor, electric light, bond, metal partitions, plumbing. Architect taking bids.

**Miscellaneous Work**, Department of Wharves, Docks and Ferries, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, Municipal Pier No. 4, South Wharves, foot of Chestnut street. Schedule A, installation of booster pump system at McKean Street Pier, No. 78, South Wharves. Schedule B, replacement of wood fenders at Municipal Pier No. 16, South Delaware River. Schedule C, repairs to concrete foundations, Bent No. 1, North side, Vine Street Pier, No. 19, North Delaware. Owners taking bids due April 12th at 12.30 P. M.

**Manufacturing Building, Dye House, (2) Picker Houses and Boiler House**, Sixty-eighth and Greenway avenue, Philadelphia. Architect, private plans. Owners, Beswick Clay Co., Twenty-fifth and Callowhill streets, Philadelphia. Brick and concrete, 2 stories, 95x250 feet, 1 story, 42x80 feet, 1 story, 20x50 feet, and 1 story, 40x45 feet, slag roof, cement floors, elevators, iron work, iron stairs, floor hardener, fire and kalamein doors, rolled steel sash and skylights, steam heating, electric lighting. M. Ward Easby, 1814 Chestnut street, taking sub-bids due April 12th.

**Community Garage (16-car)**, Franklin street, North of Oak Lane avenue. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owner, John S. Baughman, 6615 North Seventh street, Philadelphia. Stone and brick, 1 story, slag roof, cement floors, metal partitions, painting, glazing, heating, electric work and plumbing. Architect taking bids due April 14th.

**Office and Apartment House**, Eighth and Montgomery avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, C. Ridgway Briggs, 1803 North Eighth street, Philadelphia. Brick, 3 stories, 18x82 feet, will contain 5 apartments, slag roof, pine and hardwood floors, hot water heat, electric lighting, metal lath, tile work, fire tower. Architect taking bids due April 20th.



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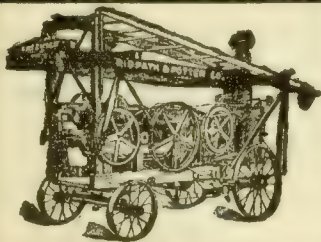
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## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man  
and Interior and Exterior Fitter.

**Office Building**, Broad street, Callowhill street, Fifteenth street and Pennsylvania avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Philadelphia Inquirer, 1109 Market street, Philadelphia. Brick, steel, granite, limestone, 8 stories and basement, 395x93 feet, slag roof, cement and maple floors, roof ventilators, dampproofing, terra cotta, caulking, cork insulation, iron work, iron stairs, bond, steel doors, rolled steel sash, tile, marble and terrazzo, metal lath (plumbing, electric work, heating, elevators and ventilating reserved). Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

**Fannie M. J. Coppin Memorial**, Tenth and Lombard streets, Philadelphia. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Brick, concrete, limestone and steel, 2 stories and basement, 45x120 feet, slag roof, maple floors, metal doors. Contracts awarded: General to S. Sidney Lewis Real Estate Trust Building, Philadelphia, Item A, \$95,678; Item B, \$95,178. Plumbing, Daniel Keating, 1042 Rittenhouse street, \$4,432. Heating, Frank M. Colbert, 5208 Baltimore avenue, \$6,468. Electric, Walker Kepler, 531 Chestnut street, \$4,444.

**Post Office Building**, Graver's Lane, North of Germantown avenue. Architects, John Graham, Jr., and Folsom & Stanton, 10 South Eighteenth street. Owners, Chestnut Hill Title & Trust Co., on premises. Stone, concrete, cut stone and brick, 1 story, 86x44 feet, Barrett's roof, maple and cement floors, roof ventilators, waterproofing, iron work, bond, rolled steel skylights, steam heating, electric lighting, metal lath, tile work. Contract awarded to R. C. Borthwick, 6511 Woodstock street.

**Moving Picture Theatre**, Lex street and Fairmount avenue, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owner, S. Borowsky, 1610 South Broad street, Philadelphia. Brick, 2 stories, 40x170 feet, slag roof, cement floors, roof ventilators, steam heating, electric light, metal lath, tile work, hollow metal skylights, fire doors. Contract awarded to Felix Claro, 5439 Webster street.

**Boys' High School Building**, Forty-ninth and Chestnut streets, \$400,000. Architects,

Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, West Philadelphia Catholic High School for Boys, on premises. Brick, steel, reinforced concrete and cut stone, 3 stories and basement, 248x108 feet, slag roof (heating and plumbing reserved), metal lath, tile and marble work, hollow metal sash, rolled steel skylights, hollow metal doors, hollow tile, roof ventilators, waterproofing, bond iron work. Contract awarded to Frank V. Warren Co., 132 South Seventeenth street.

**Store Building (alts. and add.)**, 1811-13 Spring Garden street. Architects, Boyd, Abel & Gugert Estey Building, Philadelphia. Owners, David F. McAllister & Son, 1343 South Twentieth street. Brick work, cut stone, plastering, carpentry, mill work, slag roof, oak floors, metal lath, tile work, painting, glazing, bond, iron work. Contract awarded to F. A. Havens Co., 645 North Nineteenth street.

**Residence and Garage**, Spring Bank and Westview avenue, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owners, Mr. and Mrs. Albert E. Bacon, 5224 Greene street, Germantown. Stone, 2 stories, 30x50 feet, wing 18x22 feet, shingle roof, composition and hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded to I. A. Dunkelberger, 71 East Herman street.

**Residence and Garage**, Chestnut Hill, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owner, Mrs. Charles Platt, 3rd, 209 East Graver's Lane. Stone and stucco, 2½ stories, 67x20 feet and 18x18 feet, shingle roof, oak and pine floors, tile work, bond, iron work (heating, electric work and plumbing reserved). Contract awarded to George S. Roth, 230 East Graver's Lane.

**Store and Office**, 32 Armat street, Germantown, Philadelphia. Architect, private plans. Owner, J. Trachtenberg, 714 West Dauphin street, Philadelphia. Brick, 2 stories, 32x80 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Contract awarded to Farrell Roth Const. Co., 1624 Spruce street, Philadelphia.

**Building**, Southeast Corner Sixty-ninth and Market streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Edward M. Cook and Edward M. Cook, Jr., Brookline, Pa. Brick,

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steel, granite and cut stone, 2 stories, 96x52 feet, slag roof, pine floors, steam heating, electric lighting, metal, tile and marble work, bond, iron work. Contract awarded to J. E. Scheule, Brookline, Pa.

**School (alts.),** Atlantic and Frankford avenues, Philadelphia. Architect, George A. Audsley, Bloomfield, N. J. Owners, St. Joan of Arc Roman Catholic Church, Rev. E. Hawks, on premises. Completion of first floor, concrete work, carpentry, mill work, painting, glazing, pine floors, hardware, plastering, metal lath, fireproof doors. Contract awarded to Roydhouse-Arey Co., 112 North Broad street.

**Building (alts. and add.),** 1610 Spruce street, Philadelphia. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owner, Dr. M. L. Zimmerman, 250 South Broad street, Philadelphia. Stone, granite, brick and concrete, fourth floor addition, 39x23 feet, 4 stories add., 12x12 feet, slag roof, oak and pine floors, elevator, doors, bond, metal lath, tile and marble work (heating, electric work, plumbing and elevators reserved). Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

**Residences and Garages (4),** Oak Lane, \$35,000 each. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick and stone, 3 stories, 28x45 feet, and hollow tile and plaster, and stone and plaster, 1 story, 18x24 feet, tile and slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, cement work. Contract awarded to Merion Const. Co., 2315 Walnut street, Philadelphia.

**Melting House (add.),** Southwest Corner Meadow and Tasker streets, \$40,000. Architect, private plans. Owners, W. J. McCahan Sugar Ref. Co., on premises. Brick and steel, 5 stories, 57x30 feet, slag roof, electric work, cement floors, steel sash. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

**Apartment Houses (2),** Southwest Corner Forty-third and Spruce streets, \$125,000. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Eugene L. Townsend, Morris Building, Philadelphia. Brick, 4 stories, irregular size, slag roof, oak and pine floors, electric light, hot water heat, tile work, metal lath. Contract awarded to Metzger, Fisher & White, Otis Building, Philadelphia.

**Residence and Garage,** Allen Lane and Emlen street, Philadelphia, \$18,500. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, C. W. Dading, 69 West Mannheim street, Philadelphia. Stone, 3 stories, 44x28 feet, 20x20 feet, garage, 1 story, 22x23 feet, slate roof, hardwood and cement floors, electric light. Contract awarded to Charles H. Dading, 1418 Walnut street, Philadelphia.

**Apartment (alts. and add.),** 4029-31 Walnut street, \$12,000. Architects, Penwood Company, 131 North Fifteenth street, Philadelphia. Owner, M. Ziffenblatt, 6139 Carpenter street, Philadelphia. Brick, 3 stories, 40x15

feet, 10x15 feet, slag roof, oak and pine floors, electric light, tile work. Contract awarded to A. Nemurosky, 1906 South Fourth street, Philadelphia.

**Sales and Service Building,** 2514-18 North Broad street, \$72,000. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, J. C. Kahn, Morris Building, Philadelphia. Reinforced concrete, cut stone and brick, 2 stories, 75x178 feet, slag roof, cement and pine floors, metal lath, tile work, rolled steel sash and doors, kalamein doors, roll rond, iron work, plate glass, metal ceilings. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

**Residence,** Allen Lane, Chestnut Hill, \$13,000. Architect, Miss Francis M. Day, Allen Lane. Owner, Mrs. Frank Miles Day, Allen Lane. Stone, 2½ stories, 51x21 feet, shingle roof, oak and pine floors, hot air heating, electric lighting, tile work. Contract awarded to Samuel Martin, 20 East Johnson street.

**Factory (add.),** Northeast Corner Farson and Viola streets, \$100,000. Architect, private plans. Owners, Collins & Aikman, Fifty-first and Viola streets, Philadelphia. Brick, 6 stories, 105x22 feet, 62x50 feet, slag roof, steel sash, steam heat, electric lighting. Contract awarded to Turner Const. Co., 1713 Sansom street.

**Store and Office Building,** Sixty-ninth and Market streets, opposite Sixty-ninth and Market Streets Terminal. Owner, G. W. McKinney, 5601 Germantown avenue, Philadelphia. Brick and steel, 2 stories, 20x80 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Curtis Grindrod Co., 10 South Eighteenth street.

**Residence (alts. and add.),** 1901 Spruce street, \$6,500. Architect, private plans. Owner, William Grange, on premises. Brick, 1 story, 16½x18 feet, slag roof, composition floors, heating and lighting extensions, plumbing. Contract awarded to Roydhouse-Arey Co., 112 South Broad street.

**Warehouse,** Northwest Corner Twenty-eighth and Christian streets, Philadelphia, \$20,000. Architect, private plans. Owners, DeFrain Sand Co., Beach and Berks streets, Philadelphia. Brick and steel, 1 story, 60x128 feet, slag roof, cement floors, steel sash, waterproofing. Contract awarded to Robert B. Lederle, 831 Witherspoon Building.

**Two-Family Residence,** 7220 Woodland avenue, Philadelphia, \$14,000. **Buildings (2) (alts. and add.),** 7222-24 Woodland avenue, \$12,000. Owner, Samuel Knee, 135 South Forty-ninth street, Philadelphia. Brick, 3 stories, (1) 20x40 feet, 17x40 feet, slag roof, hardwood



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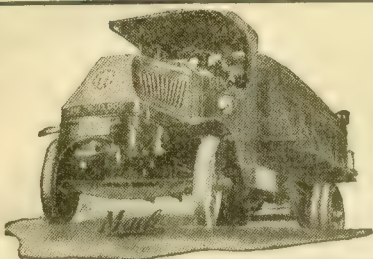
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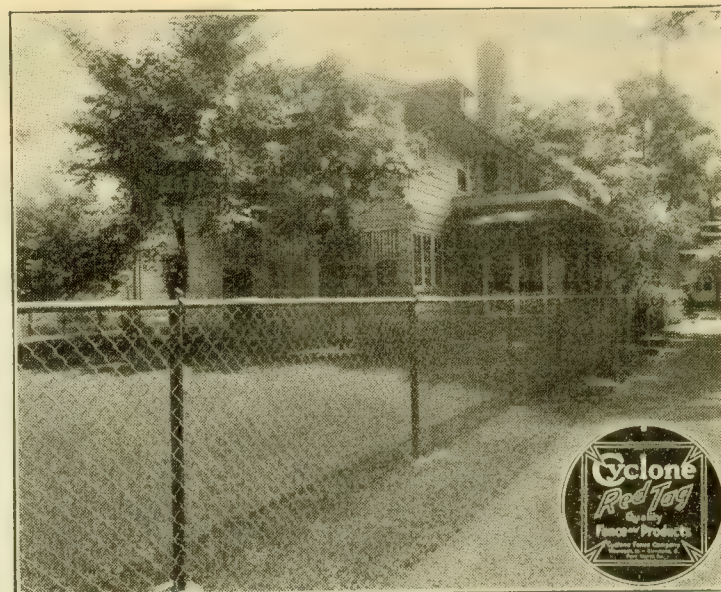
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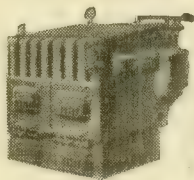
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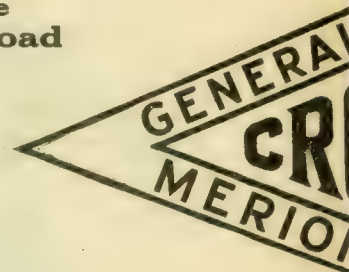
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**Residence and Store**, 4023 York Road, Philadelphia, \$6,000. Architect, private plans. Owner, Harry C. Rocky, Seventh and Russell streets, Philadelphia. Brick, 2 stories, 25x63 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to James F. Murphy, 1721-23 North Second street.

**Residence and Store (add.)**, 5200 North Fifteenth street, \$5,000. Architect, private plans. Owner, William O. Mahon, 6718 North Broad street, Philadelphia. Brick, 1 story, 48x10 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street, Philadelphia.

**Store and Garage**, Northwest Corner Sixty-fourth and Sigel streets, Philadelphia, \$12,000. Architect, private plans. Owners, Babis & Bender, 1817 South Fourth street, Philadelphia. Brick, 2 stories, 46x46 feet, 46x86 feet, slag roof, pine and cement floors, electric lighting. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

**Residence and Garage**, West side Twelfth street, South of Oak Lane, \$31,500. Architect, private plans. Owner, John X. Kolb, 6317 North Broad street, Philadelphia. Hollow tile, 3 stories, 28x43 feet, slate roof, hardwood, pine and cement floors, hot water heating, electric lighting, tile work. Con-

tract awarded to Hesswin Company, 2047 Arch street, Philadelphia.

**Residence and Store (add. and alts.)**, 1010 West Somerset street, \$3,500. Architect, private plans. Owner, Fred Noll, Camac and Cambria streets, Philadelphia. Brick, 1 story, 3x14 feet, add., slag roof, general alterations. Contract awarded to E. G. Detwiler, 2901 North Park avenue.

**Garage**, Bells Mill road and Stenton avenue, \$4,000. Architect, private plans. Owner, Charles S. Cheston, on premises. Stone, 1 story, 27x24 feet, slate roof, cement floor. Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

**Garage**, West side Weymouth street, North of Ontario street, \$5,000. Architect, private plans. Owner, Fred Murtz, 3430 Reach street, Philadelphia. Brick, 1 story, 84x36 feet, slag roof, cement floors. Contract awarded to A. E. Bowers Co., 2044 East Clementine street.

**Residence (alts. and add.)**, 2136 East Cheltenham avenue, \$2,600. Owner, Joseph Alsop, on premises. Brick, 1 story, 16x10 feet, slag roof, general alterations. Contract awarded to M. C. Manchey, 80 East Washington Lane.

**Store (mezzanine floor)**, 1525 Chestnut street, \$3,200. Owner, A. Pomerantz, 644 Cliveden avenue, Philadelphia. Brick, 1 story, 16x20 feet, hardwood floors, electric work. Contract awarded to Manor Building Co., 5232 Laurens street.

**Shed and Garage**, South side Mt. Pleasant avenue, West of McCallum street, Philadelphia, \$2,300. Architect, private plans. Own-

er, Helen G. C. Smith, 7043 McCallum street, Philadelphia. Brick and iron, 1 story, 18x20 feet and 7x9 feet, slag roof, cement floors, electric light. Contract awarded to J. K. Hoff, 3531 North Seventh street, Philadelphia.

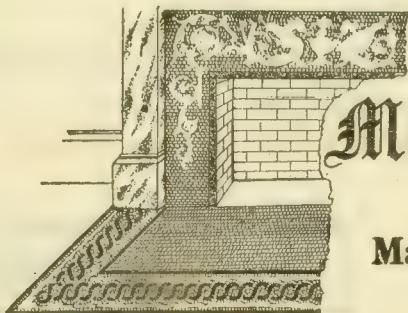
**Bungalow**, North side Gilham street, East of Bingham, Philadelphia, \$3,500. Architect, private plans. Owner, E. L. Williams, care of builder. Brick, 1 story, 20x40 feet, hardwood floors, electric lighting. Contract awarded to F. A. Adair, 6711 Rising Sun avenue, Philadelphia.

**Garage**, 2656 North Third street, Philadelphia, \$2,500. Owner, R. J. Kensil, 302 West Lehigh avenue, Philadelphia. Brick, 1 story, 32x21 feet, slag roof, cement floors. Contract awarded to Troutman & McKeown, 2006 Tulip street.

**Shop**, 1030-32 Bodine street, Philadelphia, \$3,500. Architect, private plans. Owner, Hack Gerhart, on premises. Brick, 2 stories, 35x37 feet, slag roof, pine floors. Contract awarded to McGuckin & Doyle, 1126 Frankford avenue.

**Residence and Store (alts. and add.)**, 5207 Warren street, \$3,500. Architect, private plans. Owner, Nellie Collins, 205 North Sixth street, Philadelphia. Brick, 2 stories, 16x25 feet, slag roof, general alterations. Contract awarded to Keystone Housewrecking & Buliding Co., 1447 North Fifty-second street, Philadelphia.

**Residence and Store**, 1480 North Fifty-second street, Philadelphia, \$16,000. Architect,



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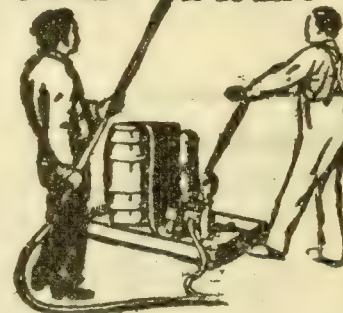
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private plans. Owner, Nellie Collins, 205 North Sixth street, Philadelphia. Brick, 2 stories, 15x47 feet, slag roof, hardwood and pine floors, tile work, electric lighting. Contract awarded to Keystone Housewrecking & Building Co., 1447 N. Fifty-second street, Philadelphia.

**Residences (3) (2-family),** Ridge and Midvale avenues, \$8,500 each. Architect, private plans. Owner, John Hoheradel, 35 Queen Lane, Philadelphia. Brick, 3 stories, various dimensions, slag roof, hardwood floors, electric lighting, tile work. Contract awarded to Curtis-Grindrod Co., 10 South Eighteenth street.

**Residence and Store (alts. and add.),** 2236 Ridge avenue, \$7,300. Architect, private plans. Owner, Morris Katzer, on premises. Brick, 3 stories, 18x51 feet, slag roof, general alterations. Contract awarded to Harry Slass, 1809 North Seventh street, Philadelphia.

**Residence,** Northeast Corner Park Line Drive and Cliveden street, \$2,500. Owner, Joseph Sionsky, 2223 North Thirty-third street, Philadelphia. Brick, 2 stories, 26x26 feet. Contract awarded to M. B. Stackhouse, 6081 Reinhard street.

**Residence (alts. and add.),** 2001 North Marshall street, \$8,000. Architect, private plans. Owner, Carl Sachs, Real Estate Trust Building, Philadelphia. Brick, 1-story add., 16x9 feet, general alterations. Contract awarded to Campbell Const. Co., 910 North Front street.

**Coal-Bin,** Southeast Corner Twenty-third and Westmoreland streets, \$5,000. Architect, private plans. Owners, Burrell Brothers, on premises. Concrete. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Residence,** East side Torresdale avenue, North of Arendell avenue, \$4,500. Architect, private plans. Owner, Leon Rigby, Torresdale, Pa. Frame, 2 stories, 20x24 feet, oak and pine floors, electric light. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

**Residence, Store and Garage,** Devereaux and Cottage streets, \$6,150. Architect, private plans. Owner, Charles Steinbach, 3312 Benner street, Philadelphia. Brick, 2 stories, 16x47 feet, slag roof, pine and cement floors. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

**Residence and Store (alts. and add.),** 335 West Girard avenue, \$4,000. Architect, private plans. Owner, Mr. Jacobson, on premises. Brick, 1 story, 3x16 feet, and 2 stories, 12x7 feet, alterations. Contract awarded to A. Rubin, 1127 Thompson street, Philadelphia.

**Storage Building (add.),** 4843-45 Aspen street, Philadelphia, \$3,500. Architect, private plans. Owner, Samuel Smith, on premises. Brick, 1 story, 40x90 feet, slag roof. Contract awarded to Louis Rosengarten, 5623 Race street.

**Store and Factory (alts. and add.),** 1008 Race street, \$3,500. Architect, private plans. Owners, W. Goldstein Co., Liberty Building, Philadelphia. Brick, 2 stories, 5x25 feet, 2 stories, 18x9 feet, general alterations. Contract awarded to S. Yellin, 3125 Montgomery avenue.

**Factory Building,** Thirty-eighth and Cuthbert streets, Philadelphia. Engineers, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Philadelphia Last & Pattern Co., 316 Cherry street, Philadelphia. Brick and concrete, slow burning construction, 2 stories and basement, 52x105 feet, slag roof, composition, cement and maple floors, waterproofing, iron work, rolled steel sash and skylights, fire doors (heating, electric work and elevators reserved). Contract awarded to Hughes-Foulkrod Co., Commonwealth Building.

**Store and Apartments (alts. and add.),** 800 North Sixteenth street. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, Mrs. Betty Elman, on premises. Excavation, underpinning, lowering floors, cement work, mill work, plastering, painting, glazing, tile work, iron work. Contract awarded to Saidel Const. Co., 5749 Walnut street, Philadelphia.

## Pennsylvania Construction News

**Bank,** Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Berks County Trust Company, care of architects. Sketches in progress.

**Sunday School (add. and alts.),** Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, First United Evangelical Church, care of architects. Brick. Sketches in progress.

**Apartments (4), Garages (13),** Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Mr. Rhoades, care of architect. Brick, 3 stories, 20x100 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Factory (add.),** Reading, Pa. Architect,

Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, C. Spang, care of architect. Brick, 2 stories, 14x50 feet, composition roof, maple floors, vapor heat, electric light, metal lath, rolled steel sash and skylights, roof ventilators. Plans in progress.

**Grade School,** Riverside, Reading, Pa. Architect, F. A. Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, Reading School Board, O. B. Heim, Eighth and Washington streets, Reading, Pa. Brick, 2 stories, 100x150 feet, composition roof, maple floors (heating, plumbing and electric work reserved), metal lath, tile work, hollow tile, roof ventilators, rolled steel sash and skylights, fire doors, waterproofing and damp-proofing, iron stairs, ornamental iron work. Plans in progress.

**Semi-Detached Houses,** Penn Side, Pa. Architect, L. D. Lance, 108 North Fifth street, Reading, Pa. Owners, H. F. Potts and F. A. Marks, Reading, Pa. Brick, stucco, 2½ stories, 30x30 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

**Store and Apartment and Garage,** Red Lion, Pa., \$30,000. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Howard Sheeler, Red Lion, Pa. Brick, 3 stories, 32x110 feet, slag roof, concrete and wood floors, vapor heat, electric light, tile and marble work, roof ventilators, rolled steel skylights. Plans in progress.

**Vaudeville Stage,** York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, York County Agricultural Society, care of architect. Steel, reinforced concrete, 1 story, 40x60 feet. Plans in progress.

**Poultry House,** York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, York County Agricultural Society, care of architect. Steel, stucco and hollow tile, 1 story, 65x300 feet, shingle roof, rolled steel skylights, floor hardener. Plans in progress.

**Twin Residences,** High street, Pottstown, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Samuel R. Haws, Ardmore, Pa. Brick and plaster, 3 stories, 18x40 feet each, tile and slag roof, hardwood floors, hot water heat, electric light, tile work, sun porches. Plans in progress.

**Bank (alts. and add.),** Harrisburg, Pa. Architect, W. L. Stoddart, 9 East Fortieth street, New York City. Owners, Commonwealth Trust Co., William Jennings, president, Harrisburg, Pa. Brick, hollow tile, tile, marble and terrazzo work, vault, bronze work. Plans in progress.

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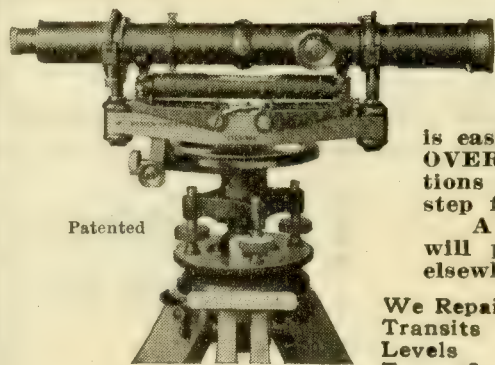
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**Church and Sunday School**, Bloomsburg, Pa., \$35,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owners, First Christian Church, Rev. L. M. Spark, Bloomsburg, Pa. Brick, Indiana limestone, 1 story and basement, slate roof, hardwood floors, electric light. Plans in progress.

**Telephone Exchange**, Levering road, Cynwyd, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, stone and steel, 2 stories, size of lot 150x200 feet. Plans in progress.

**Women's Dormitory**, State College, Pa., \$250,000. Architect, not yet selected. Owners, Pennsylvania State College (Pennsylvania State Grange), P. H. Dewey, Gaines, Pa., chairman of Building Committee. Work contemplated.

**Apartment House**, Bala, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, Mrs. C. W. Kendrick, Bala, Pa. Stone and stucco, 3 stories and basement, 25x35 feet, slag roof, composition floors (heating and lighting extensions). Plans in progress.

**Residence and Garage**, Jenkintown, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Stone and stucco, 2½ stories, 24x34 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress.

**Stores and Hotel (alts. and add.)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, D. A. Skylas, Lancaster, Pa. Brick, 3 stories, 50x75 feet, slag roof, composition and hardwood floors, steam heat, electric light, metal lath, iron work. Plans in progress.

**Warehouse (add.)**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Block Brothers, 419 North Prince street, Lancaster, Pa. Brick, 4 stories, 60x90 feet, 60x60 feet, slag roof, wood floors, electric light, freight elevators, steel sash, fire doors, floor hardener. Plans in progress.

**Garage**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, care of architect. Concrete block, steel trim, 1 story, 72x117 feet, asbestos shingle roof, concrete floors, electric light, rolled steel sash. Architect will be ready for bids this week.

**Residences (26)**, Lancaster, Pa., \$7,000 each. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Stephen

Developing Co., care of architect. Brick, 2½ stories, 28x36 feet, slate roof, pine floors, hot air heat, electric light. Architect ready for bids.

**Telephone Exchange (add.)**, Norristown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, stone, steel, concrete and terra cotta, 2 stories. Plans in progress.

**Church, Sunday School and Parsonage**, Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Holy Trinity Lutheran Church, Rev. C. E. Keim, Lebanon, Pa. Stone, 1 story and basement and 2 stories and basement. Revised plans in progress.

**Apartment House**, Rutgers avenue and Chester Pike, Swarthmore, Pa. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Swarthmore Apartment House Co., Swarthmore, Pa. Brick, 3 stories, U-shaped, irregular in size (12-family), composition roof, hardwood floors, steam heating, electric light, tile and marble work, waterproofing, cement work, kitchen equipment. Plans in progress. Architects will be ready for sub-bids April 14th.

**Residence (alts. and add.)**, Malvern, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building. Owner, George R. Camp, 135 South Second street, Philadelphia. Hollow tile, plaster and cut stone, 2½ stories, 45x36 feet, shingle roof, tile and hardwood floors, vapor heat, electric light, tile and marble work. Architect taking sub-bids.

**Bank (alts. and add.)**, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Conestoga National Bank, care of architect. Brick, 1 story, 24x50 feet, slag roof, linoleum floors, roof ventilators, electric light, rolled steel skylights, bank fixtures, general interior alterations, ornamental iron work. Owner will be ready for bids in a week.

**Bank**, Dover, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, Dover National Bank, care of Mr. Lauer, care of architect. Brick, Indiana limestone, 1 story and mezzanine, 30x64 feet, slag roof, tile floors, electric light, vapor heat, metal lath, bronze work, metal window guards, bank fixtures. Architect will be ready for bids in two weeks.

**Stores and Apartments (4)**, Baltimore street, Hanover, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, C. Y. Myers, 305 Baltimore street, Hanover, Pa. Brick, 3 stories, 80x100 feet, com-

position roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, skylights, store fixtures, waterproofing, terra cotta. Owner ready for bids.

**Residence**, Springfield, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, W. P. Haney, care of architects. Frame and stucco, 1½ stories, 44x28 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Plans completed. Owner will take sub-bids.

**Residence**, Merbrook avenue and Latches Lane, Merion, Pa. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Mrs. Mary A. Kerns, care of architect. Stone and stucco, 2½ stories, 73x32 feet, shingle roof, oak, pine and composition floors, electric light, metal lath, tile work, bond. Architect taking bids due April 16th.

**High School (interior completion)**, Meriland and Monticello streets, Pittsburgh, Pa. Architects, Ingham & Boyd, Empire Building, Pittsburgh, Pa. Owners, Board of Education, Pittsburgh, Pa. Brick, stone and steel, 3 stories, 245x215 feet, slag roof, cement and maple floors, tile work, rolled steel skylights, bond, iron work. Bids due April 16th.

**Residence**, Brookline, Pa., \$15,000. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Arlington Evans, West Philadelphia High School for Boys, Forty-eighth and Walnut streets, Philadelphia. Stone and stucco, 2½ stories, 25x40 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Architect taking bids.

**Residence (alts.)**, Barren Hill, Pa. Architect, private plans. Owner, Charles Wagner, care of Barren Hill, Pa. Cement work, carpentry, mill work, painting, glazing, plastering, heating alterations, tin roof, electric work, hardware, iron work. Bids due April 12th.

**School (alts. and add.)**, Shippensburg, Pa. Architect, R. A. Starr, Spooner Building, Harrisburg, Pa. Owners, State Normal School, Dr. E. Lehman, Shippensburg. Brick, 1 story, 30x30 feet, slate roof, maple and composition floors, heating extension, electric light, marble work. Owners subletting.

**Garage, Show Room, Warehouse and Apartment**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, D. W. Ranck, 308 East King street, Lancaster, Pa. Steel, brick, mill work, 1 and 3 stories, 45x120 feet, 36x80 feet, vapor heat, tile, hardwood and concrete floors, hoist elevators, tile

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work, rolled steel skylights, plate glass. Low bidder: Walter Zook, 311 North Queen street, Lancaster.

**Convent**, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Parish, care of Rev. George J. Breckel, York, Pa. Brick, 2½ stories, 30x60 feet, slate roof, hardwood floors. Architect ready for bids due April 13th.

**Ban k and Office**, Red Lion, Pa. Architect, J. A. Dempwolf, Centre Square, York, Pa. Owners, First National Bank, C. S. La Motte, president, Red Lion, Pa. Granite, brick, 3 stories, 150x57 feet, slate roof, maple floors, hollow tile, metal lath, electric light, tile and marble work. Owners taking bids due April 24th.

**Bank (alts. and add.)**, Williamstown, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Williams Valley Bank, care of J. J. Clarkson, Williamstown, Pa. Brick, 2 stories, 22x27 feet, vapor vacuum heat, electric light, general alterations, tile and marble work, bank fixtures. Owners taking bids due as soon as possible.

**Residence**, Brookline, Delaware County, Pa. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Dr. A. Howard Thomas, Broad and Filbert streets. Frame and stucco, 2½ stories, 25x35 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, lunken sash, sleeping porch. Architect will be ready for sub-bids in one week.

**Church**, Thirteenth and Derry streets, Harrisburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Christ Lutheran Church, care of E. A. Hefflinger, East End Trust Co., Harrisburg, Pa. Stone, 1 story and basement, 105x55 feet, slate roof, hardwood floors, vapor heat, electric light. Owners taking bids due April 18th.

**Apartment**, Third and Woodbine avenue, Harrisburg, Pa. Architect, private plans. Owner, S. C. Crist, 2002 North Fourth street, Harrisburg, Pa. Brick, 3 stories, 36x68 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Owner taking bids.

**Stores (2), Apartments (6) (alts. and add.)**, Third street, Harrisburg. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owner, Mr. Garner, Third and Herr streets, Harrisburg, Pa. Brick, 3 stories, 60x30 feet, composition roof, pine floors, central heat, electric light, tile work. Architects taking bids.

**School**, Duncannon, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg, Pa. Owners, Duncannon School Board, care of Mr. J. R. Rife, Market street, Duncannon, Pa. Brick, 2 stories, 144x60 feet, slag roof, pine floors (heating, electric work and plumbing reserved), hollow tile, metal lath, safety treads, roof ventilators, skylights, dampproofing, ornamental iron work. Owners taking bids due April 14th.

**Garage, Show Room and Apartment**, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, R. C. Keller, Motor Car Co., 325 East Market street, York. Terra cotta, brick, reinforced concrete, 2 and 1 stories, 83x230 feet, slag roof, concrete and hardwood floors, hollow tile, blower system heating, electric light, metal lath, tile work, rolled steel sash, fire doors, waterproofing and dampproofing, floor hardener, ornamental iron work. Architect taking bids due April 15th.

**Public Comfort Station**, Center Square, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, City of Lancaster, M. W. Hetrick, chairman Building Committee, Woolworth Building, Lancaster, Pa. Concrete, 60x60 feet, electric light, tile and terrazzo floors, marble work, safety treads, marble work, plumbing, water-

proofing, concrete stairs. Architect taking bids due April 16th.

**Store and Residence**, Jessup, Pa. Architect, Vincent Russoniello, Seranton Life Building, Seranton, Pa. Owner, Angelo Caddellino, Jessup, Pa. Frame, 2½ stories, 31x42 feet, asbestos shingle roof, pine floors, electric lighting. Owner will build.

**Store**, Hazleton, Pa., \$90,000. Architects, Tilghman Moyer Co., Allentown, Pa. Owners, Lauderbach & Co., 20 West Broad street, Hazleton, Pa. Steel, brick, 2 stories, 40x150 feet, temporary wood roof, hollow tile, vapor heat, electric light, hardwood, tile and concrete floors, tile and marble work, rolled steel sash and skylights, tin clad fire doors, dumb waiters, terra cotta. Architects will build.

**School**, Pringle, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Pringle, T. M. Gaugh, Pringle, Pa. Frame, 2 stories, 70x100 feet, slag roof, pine floors, electric light, roof ventilators. Architect taking bids due April 16th.

**Stores (2) and Apartment (add.)**, Wilkes-Barre, Pa. Architect, H. Maier, Coal Exchange Building, Wilkes-Barre. Owner, I. Isaacs, 501 South Main street, Wilkes-Barre, Pa. Brick, limestone, 2 stories, 50x23 feet, slag and tin roof, pine floors, steam heat, electric light, marble work, plate glass, cut stone. Architect taking bids due as soon as possible.

**Dance Pavilion and Bowling Alley**, near Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Frank Devlin, care of architects. Frame, 2 stories, 65x182 feet, pine floors, plumbing. Owner builds.

**Summer Hotel and Stores**, Harvey's Lake, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Frank Devlin, care of architects. Frame, stucco, 3 stories, 32x80 feet, shingle roof, pine floors, plumbing. Owner will build.

**Paint Shop**, Plymouth, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Frank Martz, Plymouth, Pa. Concrete, frame, 1 story, 30x65 feet, built-up roof, concrete and pine floors, steam heat, electric light, steel sash, skylights. Owner will build.

**Apartment House**, Wilkes-Barre, Pa. Architect, R. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Milander & Herr, Simon Long Building, Wilkes-Barre. Brick, stone, 3 stories, 185x98½ feet, slag roof, hardwood floors, hollow tile, vapor heat, electric light, metal lath, tile and marble work, rolled steel skylights. Owners taking sub-bids.

**Store (alts. and add.)**, Wilkes-Barre, Pa. Architect, H. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Freedmer & Dathner, Wilkes-Barre, Pa. Brick, 1 story, 25x39 feet, slag roof, pine floors, electric light, general alterations, metal ceilings, store fixtures. Architect ready for bids.

**Church**, Pittston, Pa. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre. Owners, Lackawanna Presbyterian Church, care of architect. Brick, 1 story and basement, 30x70 feet, metal lath, pine floors, steam heat, electric light, metal lath,

ornamental work. Architect ready for bids.

**Residence**, Kingston, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, J. B. Wallace, care of architects. Frame, 2 stories, 30x42 feet, shingle roof, hardwood floors, tile work, vapor heat, electric light. Architects taking bids due as soon as possible.

**School (add.)**, Chester street, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, School Board of Kingston, J. Miles, secretary, Kingston. Brick, 2 stories, 85x61 feet, slag roof, hardwood floors, roof ventilators, electric light (heating, plumbing and electric reserved). Owners ready for bids due April 27th.

**High School**, Plymouth, Pa., \$500,000. Architect, Lewis Hancock, Mear Building, Seranton, Pa. Owners, Plymouth School Board, Plymouth, Pa. Brick, fireproof. Architect selected.

**Office Building**, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, steel, 2 stories, 30x70 feet, built-up roof, yellow pine floors, steam heat, electric light, rolled steel sash. Plans in progress.

**Store and Apartment**, Kern avenue, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2 stories, 32x60 feet, slag roof, pine floors, steam heat, electric light, plate glass, sash, metal ceilings. Plans in progress.

**State Police Barracks (add.)**, Wyomissing, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, State of Pennsylvania, Captain Clark, Wyomissing, Pa. Frame, 3 stories, 35x57 feet and 48x35 feet, slag roof, pine floors, steam heat, electric light, metal lath, roof ventilators, rolled steel skylights. Architects will take bids in one week.

**Garage**, Kingston, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Davis Brothers, Kingston, Pa. Steel, concrete, 2 stories, 60x100 feet, slag roof, concrete floors, steam heat, electric light, metal lath, rolled steel sash, plate glass. Revised plans in progress. Architect will take bids in ten days.

**Warehouse (alts. and add.)**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre. Owners, G. T. Bell Co., 66 East Northampton street, Wilkes-Barre. Brick, steel, 1 story, 40x100 feet, composition roof, plank, steel truss floors, heating extension, electric light, freight elevators, elevator doors, roof ventilators, rolled steel sash and skylights, fire escapes. Plans in progress. Architects will be ready for bids this week.

**School**, Pringle street, Kingston, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School Board, Mr. Evans, secretary, Kingston, Pa. Brick, fireproof, 2 stories, 8 rooms, slag roof, hardwood floors, hollow tile (heating, plumbing and electric work reserved), roof ventilators. Architects taking bids due April 27th.

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**Church**, Duryea, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, care of architects. Brick, 1 story, basement, 40x112 feet, slate roof, pine floors, metal lath, steam heat, electric light. Architects taking bids due April 17th.

**Store and Apartment**, Kingston, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Mrs. Josephine Schahutesky, Dickson City, Pa. Frame, 2 stories, 34x54 feet, shingle roof, pine floors, steam heat, electric light, metal ceiling, dampproofing. Plans in progress.

**Apartment**, Scranton, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Walter Paleski, care of architect. Frame, 2 stories, 42x60 feet, steam heat, electric light, slag roof, pine floors. Plans in progress.

**Hotel (alts. and add.)**, Nanticoke, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Anthony Seder, Nanticoke, Pa. Brick, frame, partitions, plumbing, electric work, pine floors, steam heat, fire escapes, wire glass. Plans in progress.

**Residence**, Scranton, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, E. Moressini, 225 North Washington avenue, Scranton, Pa. Frame, stucco, 2½ stories, 28x28 feet, tile roof, hardwood floors, steam heat, electric light, metal lath. Plans in progress. Architect will be ready for bids in two weeks.

**Residences (10)**, Coplay, Pa. Architect, E. R. Bitting, Bethlehem, Pa. Owner, Joseph Butlaber, Coplay, Pa. Brick, 2 stories, 44x18 feet, slate roof, hardwood floors. Owner taking bids.

**School**, Nanticoke, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Holy Trinity Roman Catholic Church, care of architect. Brick, fireproof, steel, 3 stories, 59x133 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), tile and marble work. Owner taking bids due as soon as possible.

**Residence (alts. and add.)**, Wayne, Pa. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, William R. Verner, Huntingdon and Reese streets, Philadelphia. General alterations and additions. Architect will be ready for bids in a few days.

**High School (add.)**, Upper Darby, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School District of Upper Darby, care of J. Milton Lutz. Preliminary plans in progress. Too early for details.

**Pumping Station**, Crum Creek, near Media, Pa. Architect, private plans. Owners, Springfield Consolidated Water Co., 112 North Broad street, Philadelphia. Brick, steel and concrete, 1 story, 95x59 feet, slag roof, concrete floors, hollow metal sash, bond. Owners taking bids due April 14th.

**Garage**, Hazleton, Pa. Architects, Tilghman Moyer Co., 824 Hamilton street, Allentown, Pa. Owner, William H. Veale, 346 East Walnut street, Hazleton, Pa. Structural steel, concrete, 2 stories, 90x100 feet, slag roof, cement and wood block floors, hollow tile, vapor heat, electric light, metal lath, plate glass, steel sash. Architects will build.

**School (alts. and add.)**, South Abington Township, Lackawanna County, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, South Abington School Board, Mr. C. Cook, Pershing, Pa. Frame, 2 stories, 30x40 feet, slag roof, pine floors, metal lath, roof ventilators (heating, plumbing and electric work reserved). Owners taking bids due April 23rd.

**Apartment and Store**, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owner, Anna Dougherty, 817 Hemlock street, Scranton, Pa. Brick, 2 stories and basement, 50x60 feet, slag roof, pine floors, steam heat, electric light, copper work,

metal ceilings, ornamental iron work. Architect taking bids due as soon as possible.

**Apartment House**, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owner, B. H. Leipman, 1008 Pine street, Scranton, Pa. Frame, 2 stories and basement, 36x65 feet, shingle roof, hardwood floors, vacuum heat, electric light, tile work. Architect taking bids due as soon as possible.

**Road Work**, Pennsylvania. Low bidders on road work opened April 3rd, 1923:

Beaver County, Route 204, Appli. 1942, Patterson and Chippewa Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$68,338.25. Thomas J. Strickler, Huntingdon, Pa.

Butler County, R-214, A-1973, Fairview Township. One course reinforced concrete and hillside vitrified brick. C. E. Walter, Butler, Pa., \$117,740.50.

Clarion County, R-214, A-2233. One course reinforced concrete and hillside vitrified brick. F. S. Wilson, Kittanning, Pa., \$162,067.10.

Clarion County, R-214 and 311, A-1940, Sligo Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. R. V. Baldwin, Coraopolis, Pa., \$55,961.35.

Clarion County, R-66, A-1939, Clarion Township and Borough. One course reinforced concrete. L. H. Hileman Const. Co., New Kensington, Pa., \$119,199.20.

Clarion County, R-91, A-2217, Washington Township. One course reinforced concrete. Joe Wiesner, St. Mary's, Pa., \$127,342.28.

Crawford County, R-200, A-2124, Blooming Valley Borough and Richmond Township. One course reinforced concrete. Fort Pitt Const. Co., Pittsburgh, Pa., \$328,978.10.

Crawford County, R-271, A-2182 and 2183, Creed Township and Hydetown Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Smethport Const. Co., Carlton, Pa., \$170,401.80.

Crawford County, R-85, A-2245, Spring Township and Springzzoro Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Henry W. Horst Co., Rock Island, Pa., \$242,154.12.

Crawford County, A-2246, Springboro Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Samuel Gamble Co., Carnegie, Pa., \$47,508.24.

Indiana County, R-68, White Township. One course reinforced concrete. M. Bennett & Sons, Indiana, Pa., \$34,448.00.

Lawrence County, R-233, A-2271, Scott and Plain Grove Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. Matthews Brothers Const. Co., Inc., Pittsburgh, Pa., \$215,380.40.

Mercer County, A-1985, Stoneboro Borough. One course reinforced concrete and hillside vitrified brick. McQuiston Paving Co., Farrell, Pa., \$51,870.

Mercer County, A-2106 and 2110, Perry Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Henry W. Horst Co., Rock Island, Ill., \$236,015.90.

Monroe County, A-2141, Smithfield Township. Either bituminous macadam (penetration method) on telford base or one course reinforced concrete. John F. Gill Co., Inc., Wayland, N. Y., \$92,994.75.

Monroe County, A-1963, Pocono and Paradise Townships. Bituminous macadam (penetration method) on broken stone base. John F. Gill Co., Inc., Wayland, N. Y., \$44,255.00.

Northampton County, A-2105 and 2167, Hel-

lertown Borough and Lower Saucon Township. One course reinforced concrete. William C. Evans, Ambler, Pa., \$253,614.47.

Northampton County, A-2225, North Catasauqua Borough. One course reinforced concrete. Monroe Miller & Sons, Northampton, \$26,614.24.

Northampton County, A-2252, Wilson Borough. One course reinforced concrete. J. E. and J. H. Miles, Easton, Pa., \$38,656.05.

Northampton County, A-2128 and 2166, Freemansburg Borough. One course reinforced concrete. R. D. Richardson Const. Co., Scranton, Pa., \$49,291.10.

Northampton County, A-2149, Stockertown Borough and Palmer Township. One course reinforced concrete. William C. Evans, Ambler, Pa., \$75,395.30.

Northampton County, A-2145, Tatamy Borough and Palmer Township. One course reinforced concrete. William C. Evans, Ambler, Pa., \$61,758.00.

York County, R-216, A-2175, Chanceford Township and Lower Chanceford Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Comerford Const. Co., Fifth and Sansom streets, Philadelphia, \$214,897.30.

York County, R-332, A-2179, East Prospect Borough, Windsor and Lower Windsor Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. W. Grant Raub, Red Lion, Pa., \$214,972.10.

York County, R-333, A-2180, Sec. 3, Hope-well Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. W. Grant Raub, Red Lion, Pa., \$109,690.34.

York County, R-333, Winterstown Borough, length 25,234 feet. W. Grant Raub, Red Lion, Pa., \$183,951.29.

## Pennsylvania Contracts Awarded

**Warehouse**, Lancaster, Pa., \$150,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Brick, steel and concrete, 3 stories and basement, 67½x182½ feet, slag roof, concrete floors, (1) elevator, cold water painting, roof ventilators, waterproofing, floor hardener, bond, steel rolling doors, rolled steel sash, steam heat, electric lighting. Contract awarded to Herman Wohlsen, Lancaster, Pa.

**Residence**, Swarthmore, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, J. Russell Smith, Swarthmore, Pa. Stone, 2½ stories, 70x30 feet, shingle roof, pine and stedman floors, warm air heat, electric light, tile work. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

**Residence**, Drexel Hill, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Dr. M. A. Roberts, 1142 South Eleventh street, Philadelphia. Frame and stucco, 2½ stories, 48x42 feet, shingle roof, pine and oak floors, hot water heat, electric lighting, tile work. Contract awarded to McNeill Valentine Co., 841 North Broad street.

**Country Club (alts.)**, Jenkintown, Pa. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Old York Country Club, Jenkintown, Pa. Brick, reinforced concrete, stone and steel, 3 stories, irregular size, slag and shingle roof, composition and pine floors, metal lath, tile and marble work, bond (heating, electric work reserved). Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

**Professional Building and Dormitory**, Jen-



kintown, Pa. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Old York Road Country Club, Jenkintown, Pa. Frame and stucco, 2 stories, 35x20 feet, shingle roof, pine and cement floors (heating, electric work and plumbing reserved). Contract awarded to E. Allen Reeves, Inc., Abington, Pa.

**Store (alts. and add.),** Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Henry Silvert, Bryn Mawr, Pa. Brick and steel, 2 stories, 16x120 feet, hardwood and cement floors, hot air heat, electric light, marble and terrazzo work, metal ceiling, metal bulks and window frames, Penn Building Block and leaded glass transoms. Contract awarded to C. L. Larrimore, 6800 Lawn-ton avenue, Philadelphia.

**Office and Apartment (alts. and add.),** East Orange street, Lancaster. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Clergymen's Beneficial Association, Mr. Helm, Lancaster, Pa. Brick, 3 stories, 50x70 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work, roof ventilators, skylights. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster.

**School,** Troy, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Troy School Board, W. R. Croman, secretary, Troy, Pa. Brick, fireproof, 2 stories, 265x110 feet, slate roof, hardwood and composition floors (heating and electric work reserved), metal lath, safety treads, roof ventilators, rolled steel skylights, waterproofing and dampproofing, iron work. Contract awarded to C. M. Thompson Co., Towanda, Pa.

**Central Office Buildings (2),** Harrisburg, Pa., and Altoona, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, steel and concrete, 105x210 feet. Contracts awarded to Central Const. Co., Harrisburg, Pa.

**Erecting Machine Shop,** Juniata Shops, Altoona, Pa. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick, steel and concrete, 1 story, 691x346 feet, Barrett roof, pine and cement floors, terra cotta, iron work, (50) rolled steel skylights. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

**Garage,** Court Ally and Philadelphia street, York, Pa. Architect, J. A. Dempwolf, Centre Square, York, Pa. Owner, F. H. Wogan, York, Pa. Reinforced concrete, steel, 3 stories, 100x100 feet, composition roof, concrete floors, electric light, rolled steel sash. Contract awarded to S. F. Gladfelter, York, Pa.

**Residence,** York, Pa. Architect, J. A. Dempwolf, Centre Square, York, Pa. Owner, G. S. Schmidt, Centre Square, York, Pa. Brick, stucco, 2 stories, 45x35 feet, stained shingle roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to I. Reindollar & Son, York, Pa.

**Bank Building,** Hazleton, Pa. Architects, Mowbray & Uffinger, 56 Liberty street, New York City. Owners, American Bank & Trust Co., Hazleton, Pa. Brick, steel, concrete, castone and granite, 8 stories, 66x106 feet, slag roof, cement floors, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, copper skylights, hollow metal sash, marble and terrazzo, metal lath, steam heat, electric light (vault doors, cork and linoleum floors and elevators reserved). Contract awarded to James Mitchell, Jersey City, N. J.

**Residence (alts. and add.),** Wayne, Pa. Architect, R. B. Okie, Crozer Building, Philadelphia. Owner, Dr. Galloway C. Morris, Devon, Pa. Stone work, hot air heat, elec-

tric light, hardwood floors, general alterations. Contract awarded to Millard N. Croll, Radnor, Pa.

**Cottage,** St. Davids, Pa. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, George L. Harrison, Jr., 2003 Delancey street. Stone, 2½ stories, 37x24 feet, slate roof, oak and pine floors, tile work (heating, electric work and plumbing reserved). Contract awarded to C. C. Eddleman, 1627 Sansom street.

**Store Building,** Narberth, Pa. Architect, A. B. Kister, 1204 Chancellor street, Philadelphia. Owners, American Stores Co., 424 North Nineteenth street, Philadelphia. Brick and steel, 1 story, irregular, slag roof, pine floors, iron work, electric work, metal lath. Contract awarded to John T. Allen, Woodbury, N. J.

**Store (add. and alts.),** Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Cleland-Simpson Co., care of architect. Brick, 5 stories, 50x165 feet, slag roof, heating extension, electric. Contract awarded to E. S. Williams, Coal Exchange Building, Scranton, Pa.

**Residence,** Scranton, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, H. L. Hughes, 215 Wheeler avenue, Scranton, Pa. Frame, 2½ stories, 30x34 feet, steam heat, electric light, asphalt shingle roof, hardwood floors, tile work. Contract awarded to Fred Klee, 1030 Paul avenue, Scranton, Pa.

**Office Building (add.),** Bridgeport, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, James Lees & Sons, Bridgeport, Pa. Brick, reinforced concrete, steel and cut stone, 2 stories add., 40x85 feet, and 3 stories, 40x50 feet, slag roof, concrete and composition floors, safety treads, iron work, bond, metal lath (heating, electric work and plumbing reserved). Contract awarded to Charles Byrnes, Bridgeport, Pa.

**Residence,** Merion, Pa. Architect, private plans. Owner, Robert Pierpont, Franklin Trust Building, Philadelphia. Hollow tile and stucco, 2½ stories, 28x50 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Merion Const. Co., 2315 Walnut street.

**Residences (4),** Nanticoke, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, Mr. Molansky, Nanticoke, Pa. Brick, 2 stories, 40x50 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

**Residence,** Fricksville, Luzerne County, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre. Owner, W. E. Dow, 2nd, National Bank Building, Wilkes-Barre. Frame, 2 stories, 30x40 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Jay Remley, Fricksville, Pa.

**Store Front (alts.),** Public Square, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weizenkorn Building, Wilkes-Barre. Owner, Eugene Jacobs, 332 South River street, Wilkes-Barre. Plate glass, general alterations. Contract awarded to A. D. Thomas, 370 South Main street, Wilkes-Barre.

**Photo Gallery and Apartment,** Kingston, Pa. Architects, Schroeder & Schmidt, Weizenkorn Building, Wilkes-Barre. Owner, S. A. Seigfried, care of architects. Frame, stucco, 2½ stories, 28x60 feet, wood slag roof, pine floors, electric light, mason work, art glass. Contract awarded to A. Hildebrand, 91 Wood street, Wilkes-Barre.

**Store and Apartment (alts.),** 58 East Market street, Wilkes-Barre. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre. Owners, Welles Estate, care of architects. Brick, 3 stories, 44x76 feet. Contract awarded

to A. D. Thomas, 370 South Main street, Wilkes-Barre.

**School,** Pittston Township, Pa. Architect, R. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Pittston Township, care of architects. Frame, 1 story, 52x35 feet, composition roof, pine floors. Contract awarded to Alimo Brothers, Pittston, Pa.

**School,** Pittston Township, Pa. Architect, Ralph Herr, Simon Long Building, Wilkes-Barre. Owners, Pittston Township, care of architect. Frame, 2 stories, 172x68 feet, composition roof, pine floors. Contract awarded to Alimo Brothers, Pittston, Pa.

**School,** Fernwood, Pa., \$78,458. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Board of School Directors, Township of Upper Darby, Arthur Garrett, president, Upper Darby, Pa. Brick, cut stone, limestone, concrete and steel, 2 stories, 79x58 feet, Barrett roof, cement and maple floors, roof ventilators, iron work, iron stairs, bond, copper skylights, terrazzo, metal lath. Contracts awarded to: General, Friel-McLeister Co., Inc., 1615 Spruce street, Philadelphia. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia. Heating, Hughes Brothers, Highland Park, Pa.

## New Jersey Construction News

**Residence,** Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owner, Joseph Richardson, Jr., care of architects. Concrete and tile, 2½ stories, 28x50 feet, concrete or shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence,** Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Dr. Walter A. Taylor, 68 Prospect street, Trenton, N. J. Frame, 2½ stories, 28x28 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

**Residence,** Lawrenceville road, Princeton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Charles A. Woodruff, American Mechanics Building, Trenton. Frame, 2½ stories, 25x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Stores (4), Apartments (4),** Vineland, N. J. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Nicholas De Lemma, 774 South Sixth street, Philadelphia, and Vineland, N. J. Brick, 2 stories, 80x80 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile work, flush bulks. Plans in progress. Ready for general bids in two weeks.

**Central Office Building,** Northeast Corner Seventeenth and Federal streets, Camden, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Stone, terra cotta, brick and steel. Plans about completed.

**Residence,** Margate, Atlantic City, N. J. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, R. T. Simons, Margate, N. J. Brick and creodipt shingles, 2 stories, 25x35 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, garage in basement. Plans completed. Architect taking bids due in ten days.

**Residences (2),** Margate, Atlantic City, N. J. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owners, A. Gardner and F. H. Williams, care of architect. Brick and creodipt shingles, 2 stories and basement, 16x31½ feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Plans completed. Architect taking bids due in ten days.



**Church**, North Willow street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, St. Paul's A. M. E. Z. Church, Rev. I. B. Turner, 304 North Willow street, Trenton, N. J. Brick, 2 stories, 50x70 feet, slate roof, hardwood floors, hollow tile, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. Architect ready for bids.

**Elementary and High School**, Oxford, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, Oxford School Board, R. Trexler, Clerk, Oxford, N. J. Fireproof, brick, steel, 2 stories, 95x170 feet, slate roof, hardwood floors (heating, electric work and plumbing reserved), hollow tile, metal lath, tile, marble and terrazzo work, safety treads, roof ventilators, waterproofing and dampproofing, bond, skylights, iron stairs and ornamental iron work. Deposit of \$25 required. Architects will take bids due April 21st.

**Bank Building**, Woodstown, N. J. Architect, David B. Bassett, 1420 Locust street, Philadelphia. Owners, Woodstown National Bank, Woodstown, N. J. Reinforced concrete, stone, brick, steel and cut stone, 1 story, balcony, basement, 54x40 feet, slag roof, cement and oak floors, steam heat, electric light, metal lath, marble and terrazzo work, bond, iron work, terra cotta. Architect taking bids due April 16th at 10 A. M.

**Trenton Central Office Building**, 216-18 East State street, Trenton, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware and Atlantic Telegraph & Telephone Co., Trenton, N. J. Brick, cut stone and steel, 7 story add., 51x52 feet, and 2 story add., 143x20 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble, copper skylights, bond, iron work. Architect taking bids due April 18th.

**Bank and Office Building**, West State street and Chancery Lane, Trenton, N. J. Architect, Alfred C. Bossom, 680 Fifth avenue, New York City. Owners, Trenton Trust Co., Trenton, N. J. Reinforced concrete, brick, granite, stone and steel, 13 stories and basement, 145x65 feet, slag roof, cement and pine floors, hollow tile, metal window guards and weather strips, terra cotta, iron work and stairs, bond, kalamein and hollow metal doors, copper skylights, hollow metal sash, tile, marble and terrazzo work, metal lath (heating, electric work, plumbing, elevators and steel work separate bids). Architect taking bids.

**High School**, Haddon Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Heights, N. J. Owners taking bids due April 16th.

**Residences (2)**, Haddonfield, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Frame, hollow tile and stucco, 2½ stories, shingle roof, hardwood and pine floors, hot water heat, electric lighting. Plans in progress.

**School**, Lapatcong, N. J. Architect, E. H. Wenzelberger, Reeder Building, Easton, Pa. Owners, Lapatcong School Board, William Debbitt, secretary, Lapatcong, N. J. Brick, 2 stories, 45x140 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved). Low bidder: Thomas Banahan, Phillipsburg, N. J., \$40,000.

## New Jersey

### Contracts Awarded

**Factory (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Mercer Pottery Co., 39 Muirhead street, Trenton, N. J. Steel,

brick, third story add., 35x100 feet, wood floors, heating extension, electric light, rolled steel skylights and sash. Contract awarded to Fred Parker, 327 Calhoun street, Trenton, N. J.

**Residence**, Princeton, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, C. O. B. Dennem, Princeton, N. J. Hollow tile and stucco, 2½ stories, 30x32 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Carroll & Pullen, Princeton, N. J.

**Stable**, Delanco, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Clarence Taubel, Delanco, N. J. Frame, 2 stories, 30x80 feet, shingle roof, cement and wood block floors, stall partitions, electric lighting. Contract awarded to Joseph E. Kolster, Beverly, N. J.

**Residence and Garage (alts. and add.)**, 107 South Cornwalls avenue, Atlantic City, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, James Stuart Lowry, Baltimore, Md. General alterations and additions. Contract awarded to R. Somers Leach, Atlantic City, N. J.

## Miscellaneous Construction News

**Residence (alts. and add.)**, Guilford Estate, near Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owner, Dr. Charles H. Conley, on premises. Stone, 1 and 2 stories, general alterations. Plans in progress.

**Hall of Chemistry**, Morgantown, W. Va. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, State Board of Control, James S. Lakin, chairman, Charleston, W. Va. Brick, steel, concrete, granite and limestone, 4 stories and basement, 305½x79 feet, steel and slate roof, oak, cement and composition floors, hollow tile, electric elevator and lift, iron stairs, bond, marble and terrazzo work, asphalt floors. Owners taking bids due June 1st at 3 P. M. Deposit, \$25.00. Refund, \$25.00.

**Dormitory and Dining Hall**, Newark, Del., \$150,000. Owners, Women's College, University of Delaware, Newark, Del. Work contemplated.

**Library**, Newark, Del., \$300,000. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, University of Delaware, Newark, Del. Brick, stone and steel. Plans in progress.

**Residences (2)**, Louisville, Ky. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owners, Lighfoot Land Co., Louisville, Ky. Stone, 2½ stories, 30x60 feet and 40x30 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Auto Sales Room**, Binghamton, N. Y. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Mrs. Fannie Hennessey, Binghamton, N. Y. Brick, tile, 2 stories, 24x62 feet, slag roof, pine floors, hollow tile, metal lath, rolled steel sash and skylights. Contract awarded to S. B. Price, Johnson City, N. J.

### DWIGHT P. ROBINSON & CO., INC., OPEN PHILADELPHIA OFFICE AT BROAD AND SPRUCE STREETS

The opening of a Philadelphia Office is announced by Dwight P. Robinson & Company, Engineers and Constructors. The new office will be under the direction of Mr. Carl A. Baer, Member American Institute of Electrical Engineers, who was recently with the firm of Baer, Cook & Company, Engineers, and a consulting engineer in the design of industrial, textile and power plants.

### SEVEN MILLION DOLLARS

Surplus capital not in broker or loan company's hands, but a private party, will loan any amount on first mortgages. Give complete details, first letter stating amount wanted and etc.

Finance, care of "Builders' Guide," Philadelphia, Pa.

### POSITION WANTED

Well educated young man, experienced in building construction, thoroughly competent to handle all clerical details and assist with estimating in the office, or act as clerk of the works in the field, desires position in or out of Philadelphia. Address "Builders' Guide," AA, Perry Bldg., Phila., Pa.

### Proposals

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., April 6, 1923. Sealed Proposals will be opened in this office at 3 P. M., May 3, 1923, for changes in Rooms 307, 308 and 309 of the United States Post Office and Court House (Old) at Pittsburgh, Pa. Drawings and specifications may be obtained from the Custodian at Pittsburgh, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., April 7, 1923.—Sealed proposals will be opened in this office at 3 P. M., May 1, 1923, for installing bituminous mastic floors in the United States Post Office at Hornell, N. Y. Drawings and specifications may be obtained from the Custodian at Hornell, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

### HALL OF CHEMISTRY at

West Virginia University  
Morgantown, W. Va.

### NOTICE TO CONTRACTORS

Sealed proposals will be received by the STATE BOARD OF CONTROL at its office in Charleston, West Virginia, until 3.00 P. M., Friday, June 1, 1923, for doing all work and furnishing all material necessary to complete the building described below, according to the plans and specifications prepared therefor by PAUL A. DAVIS, 3rd, & DUNLAP, Architects, Philadelphia, Pa.

The building is to be 305 feet 7 inches x 79 feet 0 inches, four stories, with basement and attic, with extension of one story and basement. Fireproof construction except main roof, which is steel, wood and slate. Exterior of face brick with granite base. Indiana Limestone face first story, and Indiana Limestone trimmings above. Interior brick finished walls. Concrete ceilings. Interior wood finish of oak. Interior partitions brick and tile. Stairs iron. Entrance vestibule marble and plaster. Floors of terrazzo, marble, tile, composition, cement and asphalt. Wrought iron railings. Electric elevator and lift.

Plans and specifications, blank form for bids and blank form of proposal bond will be mailed by the State Board of Control when request for plans is accompanied with check for \$25.00, which amount will be refunded on receipt of bona-fide bid on or before time named above and proposal bond properly filled out and return of plans.

STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, W. Va.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Woodoleum Mfg. Co. ....133 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....116 W. 39th St., New York  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
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Weber, F., Co. ....1125 Chestnut St., Phila.  
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Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

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Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

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Ketcham, Howard ....3rd and Girard Ave., Phila.  
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Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
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Roman Mosaic & Tile Co. ....435 Green St., Phila.

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Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
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Richardson & Boynton Co. ....1308 Arch St., Phila.

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## WATERPROOFING.

Adensite Co., Inc. ....116 W. 39th St., New York  
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Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

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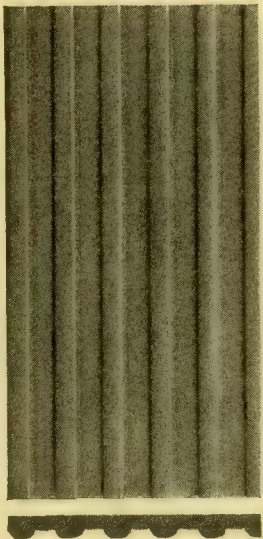
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 16

April 18, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
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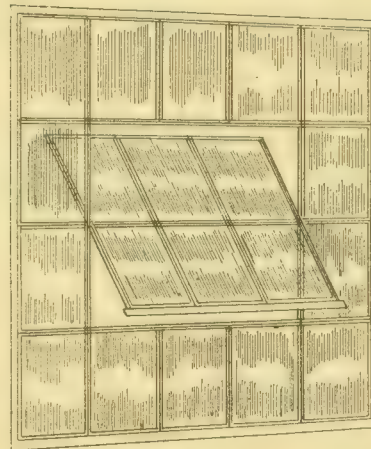
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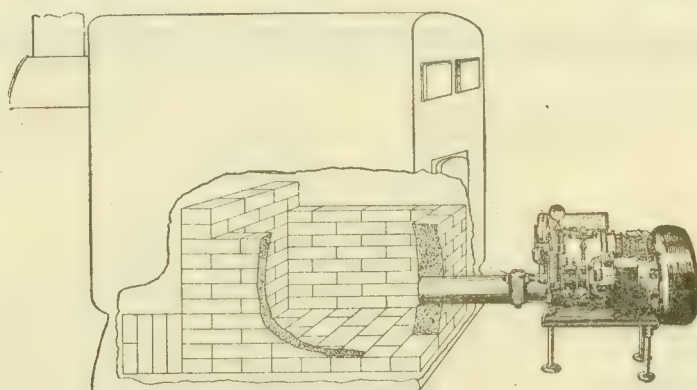
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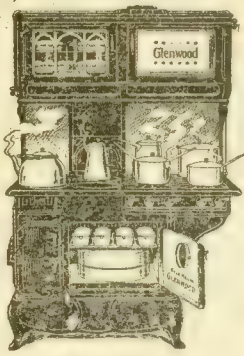
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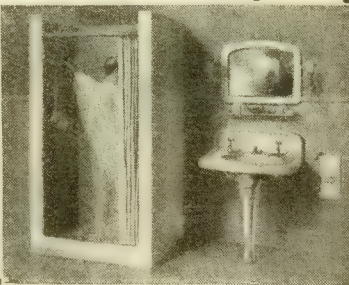
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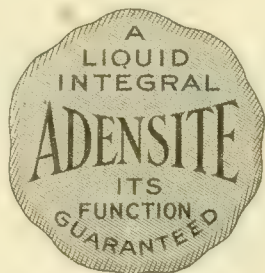
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 16

PHILADELPHIA  
April 18, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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To all points in United States.....\$5.00 a year

To all points in Canada..... 5.50 a year

To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

Subscriptions not discontinued at expiration  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



**M**R. HERBERT HOOVER, Secretary of Commerce, has forcefully emphasized the conditions confronting the building industry in the following letter and report therein submitted to President Harding:

March 17, 1923.

His Excellency  
The President,  
Miami, Florida.,

Dear Mr. President:

I am in receipt of your letter of March 3d as follows:

"The Administration, in one way or another, has the direction of Congress to carry on a very considerable volume of construction work. I would be glad to have the advice of the Department of Commerce as to the policy which ought to be pursued in view of the present economic situation in the building industries, with a view to determining how much to speed up on the construction program to which we are committed."

In response thereto I directed that the Department should conduct a survey of the situation in the construction trades, a summary of which is attached hereto. I shall not trouble you with the vast amount of detailed data, but these conclusions bring out several fundamentals:

1. The year 1922 was a year of very large employment and activity in the construction trades and at the end of

the year stocks of construction materials were very much reduced. Since the beginning of the present year there has been even more activity than in the same period last year and the contracts let in the past few months are of larger volume than any hitherto entered into in a similar period. Advance orders for construction materials are upon a very large scale.

2. Labor in the construction trades and in the manufacture of materials is not only at full employment but there is actually a shortage in many directions.

3. Transportation facilities available for the building materials are fully loaded and almost constant car shortages are complained of with consequent interruption in production.

My conclusion from all this is that, at least for the next several months, the trades will be fully occupied in private construction, all of which is generally needed by the country.

For the Government to enter into competition at the present moment will give no additional employment to labor and no additional production of materials but must in the broad sense in the end displace that much private construction. The governments, nationally and locally, are in a much better position to hold construction work in abeyance than are private concerns, and are in better positions to speed up in times of less demand

as we did in the last depression as the result of the Unemployment Conference. We can by this means contribute something to a more even flow of employment not only directly in construction work but in the material trades.

I would recommend, therefore, that you direct the different divisions of the Government to initiate no new work that is not eminently necessary to carry on the immediate functions of the Government and that there should be a slowing down of work in progress so much as comports with real economy in construction, until after there is a relaxation in private demands.

Yours faithfully,  
HERBERT HOOVER.

### SUMMARY OF A SURVEY OF THE BUILDING SITUATION MARCH 16, 1923

The extensive data submitted with this memorandum show that the capacity of the construction industry in the next few months at least will be fully utilized by the demands for private construction and the work of state and local governments already under contract or critically necessary for maintenance.

The volume of construction carried out in 1922 is indicated by the following figures on building materials:

(Index numbers based on 1913 activity as 100)

**DRAWING  
MATERIALS**

**CHARLES H. ROBBINS, JR.**

1209 Arch Street,  
BELL PHONE, SPRUCE 1256

Philadelphia  
KEYSTONE PHONE, RACE 3519

**BLUE  
PRINTS**



	1922	1921	1920	1919
Lumber production	103	80	94	94
Cement production	124	107	109	87
Fabricated steel sales	168	87	130	125

Lumber production in 1922 was above any year in the past decade, while fabricated steel sales were 16 per cent. over those for 1916, the highest previous year. Cement shipments were greater than production, and were 20 per cent. higher than in 1920, the previous record year.

Contracts awarded for construction work in 1922, compared with the three previous years, are shown by the following index numbers, based on 1919 figures as 100:

#### Contracts Awarded

	1922	1921	1920	1919
Total value	130	91	98	100
Total floor space	102	69	72	100

Actual building activity in 1922 in relation to 1919 was greater than the figures on contracts awarded show. A large amount of building contracted for in the last months of 1921 was carried over into 1922, whereas there was practically no such carry-over into 1919.

There was practically full employment of labor during 1922, and an actual shortage of labor in many localities.

Price levels of construction materials advanced during the year as shown by the following index numbers:

Year and Month	Frame House materials	Brick House materials	Wholesale prices
1922			
January	174	179	157
February	169	174	156
March	169	173	155
April	168	172	156
May	173	176	160
June	178	181	167
July	181	184	170
August	189	193	172
September	193	197	180
October	196	199	183
November	196	201	185
December	192	198	185
1923			
January	195	199	188
February	198	201	192
Percent of increase February 1923, over February, 1922	17%	16%	23%

At the end of the year stocks of building materials were greatly reduced.

Since the beginning of this year building activities have materially increased over those of a year ago, as shown by the following index of contracts awarded for January and February:

(Index numbers, 1919—100)

	Feb., 1923	Jan., 1923	Feb., 1922	Jan., 1922
Total value	107	101	83	77
Total square feet	89	83	64	65

Residential, value ..143 158 107 107  
Residential, sq. ft...112 122 82  
Actual totals in dollars for 27 north-eastern states are as follows:

	Jan. and Feb., 1923	Jan. and Feb., 1922
Total value	\$447,271,000	\$343,685,110
Total sq. ft.	80,558,400	60,321,300
Residential, value	212,769,900	151,431,800
Residential, sq. ft.	47,253,300	34,568,800

The limiting physical factors in the amount of construction to be undertaken in the future are labor, materials, and transportation.

It may be said generally that labor is in full employment at the present time, and the increase in construction demand during the spring months on the basis of contracts already let indicates even increased shortages over those now existing. Considerable numbers of material manufacturers are running at full capacity, and where production capacity is under-employed at the present time it is largely due to shortage of labor.

Advance orders are greatly in excess of those a year ago. Combined figures of seven large lumber associations show an increase of 49 per cent. in orders received during the first nine weeks in the year, over the same period in 1922. Unfilled steel orders of the largest company were 71 per cent. greater at the end of February than a year before. Sales of fabricated steel for the first two months of 1923 were 85% above the same period in 1922. January orders for sanitary pottery made a new high record for all time. Trade reports for other commodities not covered by adequate statistics indicate similar tendencies.

The transportation situation is indicated by the car shortage during the last few months as follows:

#### Car Shortages at End of Month

	1922	1921
December	82,927	110
	1923	1922
January	73,269	642
February	80,633	599

From the above it would appear that the building and construction necessities of the country are being taken care of so far as labor, material manufacturing, and transportation facilities permit, and that the addition of Governmental projects at the present time will not add to the production of materials or to the amount of employment in the country, but would in fact mean simply displacement of construction that could be undertaken at private hands.

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Power House**, South side of Filbert street, East of Forty-first street. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Modern Laundry, 4089 Market street, Philadelphia. Brick, 1 story, 32x70 feet, concrete and steel roof, cement floors, rolled steel sash, hollow metal skylights. Plans in progress. Architect will be ready for bids in one week.

**Store and Apartments**, Fortieth and Lancaster avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 16½x64 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, metal ceilings, copper bulks. Plans in progress.

**Stores and Apartments (2) (alts.)**, Southwest Corner Fifteenth and Westmoreland streets, Philadelphia. Architect, R. C. Winter, 23 South Sixteenth street, Philadelphia. Owner, Joseph E. Eppley, on premises. Brick, 3 stories, 16x65 feet, general alterations. Plans prepared. Will take bids in fall of 1923.

**Stable and Garage**, 1325-31 South Howard street, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, William Hamilton, 1345 South Howard street, Philadelphia. Brick, 2 stories, 60x100 feet, slag roof, cement and plank floors, electric lighting. Plans in progress.

**Stores (2), Apartments (4)**, 302-04 South street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. Caplan, 331 South street, Philadelphia. Brick, 4 stories, 20x95 feet, slag roof. Preliminary plans in progress.

**Residence (alts. and add.)**, 1906 Panama street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss M. Falconer, care of architect. Brick, 4 stories, 16x50 feet. Plans in progress.

**Stores (6), Apartments (8)**, Southwest Corner Fifty-seventh and Market streets. Architect, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, George F. Pfhaumer, Fifty-seventh and Market streets, Philadelphia. Brick, 3 stories, 70x70 feet, slag roof, electric lighting, pine floors, tile work, metal bulks. Plans in progress.

**Residence**, Burholme, Philadelphia. Archi-

tect, W. K. Durham, 323 Walnut street. Owner, Frank W. Wheeler, 3347 North Water street, Philadelphia. Frame and stucco, 2½ stories, 27x35 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work, screens. Owner will take bids in one week.

**Store Building (add.)**, 1526-28 Chestnut street, Philadelphia. Engineers, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners, Steigerwalt Boot Shop, 1420 Chestnut street. Brick, stone, steel and concrete, 5 stories addition to present building, 40x150 feet, slag roof, elevators, concrete and hardwood floors, tile and marble work. Engineers will build in summer of 1924.

**Residences (50)**, Berks street, between Fifty-second and Fifty-third streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, M. A. Schwartz, 39 South Thirteenth street, and Harry Wolf, 736 Moyamensing avenue, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Residence**, Oxford Pike near Dyer street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Henry Drake, 3129 Frankford avenue, Philadelphia. Stone, 2½ stories, 30x50 feet, hot water heating, electric light, tile work, copper shingle roof, hardwood floors. Owner will build.

**Stores (alts.)**, Southwest Corner Fifty-seventh and Walnut streets, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Joseph Elvanyan, on premises. Stores in basement, plate glass, copper bars, excavation, carpentry, mill work, hardwood floors, metal ceilings. Owner is taking sub-bids.

**Apartment House**, Southwest Corner Nineteenth and Rittenhouse streets, Philadelphia. Architects, Sugarman, Hess & Berger, 16 East Forty-third street, New York City. Owner, name withheld. Brick, steel, concrete, stone, limestone and terra cotta, 15 stories, 42x95 feet, slag roof, hardwood and cement floors, elevators, steam heat, electric light, tile and marble work, steel and iron work. Architects taking sub-bids.

**Store and Apartments**, Thirty-fourth and Spring Garden streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 18½x122 feet, slag roof, pine floors, demolition, hot water heat, electric light, metal lath, tile work, bond, metal bulks. Plans in progress.

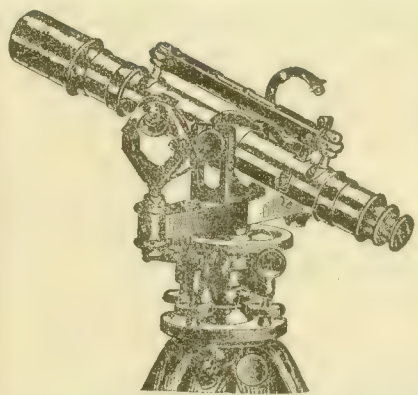
**Store and Apartments**, 5535 Germantown avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Charles Vant, on premises. Brick, 3 stories, 14x70 feet, slag roof, hardwood and pine floors, metal ceilings, metal bulks, bond, store fixtures, hollow metal skylights, tile and marble, metal lath, hot water heat, electric light. Plans in progress. Will be ready for bids in one week.

**Store and Dwelling**, Second and Fairmount avenue, Philadelphia. Architects, Magaziner, Eberhard and Harris, 603 Chestnut street. Owner, Harry Grossman, 550 North Second street, Philadelphia. Brick, steel and cut stone, 3 stories, 65x29 feet, slag roof, cement and maple floors, waterproofing, terra cotta, iron work, bond, hollow metal sash, tile and marble work, metal lath. Owner taking bids due as soon as possible.

**Lombard Central Exchange (alts.)**, 254 South Fourth street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Concrete work, mill work, brick work, fire doors. Architect taking bids due April 21st.

**Recreation Building**, Berks and Blair streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building. Owners, Department of Public Welfare, Bureau of Recreation. Reinforced concrete, brick, cut stone, limestone and steel, 2 stories, 61x33 feet and 52x37 feet, slag and tin roof, cement, maple and pine floors, hollow tile, metal ceilings, dampproofing, iron work, bond, hollow metal sash, metal lath (heating, electric work and plumbing separate bids). Owners taking bids due April 20th at noon.

**Offices and Apartments**, Frankford, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Smith & McGowan, 813 East Allegheny avenue, Philadelphia. Brick and terra cotta, 3 sto-



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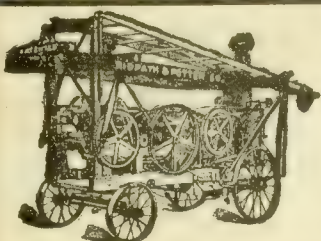
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ries. Architects taking bids due April 20th.  
**Building (alts.)**, 1915 Spruce street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Dr. Matthew S. Ersner, 1729 Pine street, Philadelphia. Architect taking bids due April 21st at 10 A. M.

**Building (alts. and add.)**, 1635 Spruce street, Philadelphia. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, name withheld. General alterations and additions. Revised plans completed. Architect will be ready for bids in a few days.

**Garage**, Twenty-second and Atlantic streets, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, James A. Clark, 6162 Columbia avenue, Philadelphia. Brick, 1 story, 80x100 feet, slag roof, cement floors, electric lighting. Owner will build.

**Miscellaneous Work**, Department of Public Works, Philadelphia. Engineer, private plans. Owners, Department of Public Works, Bureau of Water, Frank H. Caven, Director, 216 City Hall, Philadelphia. Construction of Fairmount Dam, concrete and steel, single nozzle fire hydrants, steel sash and doors. Owners taking bids due May 4th at noon. Inquire Room 796.

**Administration Building**, Northeast Sewage Treatment Works, Philadelphia. Architect, private plans. Owners, Bureau of Surveys, Department of Public Works, F. H. Caven, Director, 216 City Hall, Philadelphia. General construction (plumbing, electric work and heating separate bids).

**Branch Sewers. Main Sewer**, Johnson street East of Mervine street, to Thirteenth street. Owners taking bids due April 25th at noon. Inquire Room 416, City Hall.

**Apartment House**, Eighteenth and Venango streets, Philadelphia. Architect, Ruben Beard, Shubert Building, Philadelphia. Owner, name withheld. Reinforced concrete, stone, brick and steel, 3 stories, 90x18 feet, slag roof, oak and pine floors, hot water heating, electric lighting, metal lath, tile work, bond, iron work. Architect taking bids due April 24th.

**Apartment House (alts.)**, near Thirty-fourth and Powelton avenue. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, name withheld. Architect taking bids.

**Residences (21), Stores (2)**, Lexington, Almond and Ann streets, \$123,600. Architect, private plans. Owners, Baron & Sherbrockow, 2552 South Ninth street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light. Owners will build.

**Garage (add.)**, 16 East Wister street, Philadelphia, \$15,000. Owners, Dracup Brothers, on premises. Brick, 2 stories, 50x102 feet, slag roof, cement floors, electric lighting. Owners will build.

**Residences (28)**, 2900-54 South Carlisle street, \$92,000. **Residences (26)**, 2901 to 53 South Fifteenth street, \$80,000. Owner, Charles M. Weild, 2737 South Sixteenth street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (24)**, West side E street, South of Loudon, \$123,000. Architect, Karl F. Otto, 5804 North Fifth street, Philadelphia. Owner, William B. Davenport, 1315 Colwyn street, Philadelphia. Brick, 2 stories, 16x50 feet, (23) 15x27 feet, 12x10 feet, hot water heat, electric light. Owner will build.

**Residences (24)**, West side Howard street, South of Clearfield, \$96,500. Architect, private plans. Owner, Charles W. Irvin, 721 Walnut street, Philadelphia. Brick, 2 stories, (23) 16x34 feet, (1) 16x45 feet, slag roof, hardwood floors, electric light. Owner will build.

**Garage**, East side Twentieth street, North of Carey street, Philadelphia, \$8,500. Architect, Charles F. Parker, Schuyler and Mannheim streets, Philadelphia. Owner, Walter L. Slifer, 4250 North Broad street, Philadelphia. Brick, 1 story, 55x135 feet, slag roof, cement floors, electric lighting. Owner will build.

**Garage and Office**, Southeast Corner Lyeom-ing and Bott streets, \$5,000. Architect, private plans. Owner, David J. Collins, 3970 Elser street, Philadelphia. Brick, 2 stories, 50x20 feet, and 1 story, 50x39 feet, slag roof, pine and cement floors, electric light. Owner will build.

**Residences (14)**, 400 to 426 Annsbury street, \$72,800. **Residences (14)**, 401 to 427 Wingohocking street, \$72,800. Owners, F. W. Biddle & Co., 4651 North Fifth street, Philadelphia. Brick, 2 stories, (4) 15x45 feet, (24) 15x30 feet, 11x12 feet, slag roof, hardwood floors. Owner will build.

**Residences (235)**, Philadelphia, \$1,045,900. (76) Newkirk and Tasker, Twenty-eighth, Morris streets. (49) Bigler, Iseminger and Thirteenth streets. (110) Burton, Bridge, Glenlock and Ditman streets. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences and Garages (9)**, 200 to 216 East Upsal street. Architect, private plans. Owners, Gwinner & De Barth, 519 Lafayette Building, Philadelphia. Brick, (1) 2 stories, 20x32 feet, and (8) 2 stories, 19x32 feet, hot water heat, electric light, slag roof, hardwood floors, tile work. Owners will build.

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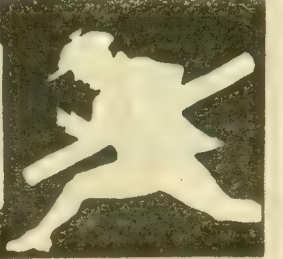
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**Residence and Store**, Northeast Corner Jefferson and Atwood streets, \$18,000. Owner, John Marshall, 1115 Marlyn road, Philadelphia. Brick, 2 stories, 12x22 feet, 20x22 feet, hot water heat, electric light, tile work. Owner will build.

**Residences (17)**, Sixty-eighth and Paschall avenue, Hobson and Bonaffon streets, \$97,000. Owners, Flynn & Mack, Fourth and Green streets, Philadelphia. Brick, 2 stories, (15) 16x32 feet, and (2) 18x32 feet, slag roof, hardwood floors, electric light. Owners will build.

**Garage**, 6016-18 Stenton avenue, Philadelphia, \$20,000. Architect, private plans. Owners, John De Paul & Brother, 80 East Sharpnack street, Philadelphia. Brick, 1 story, 42x180 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (3)**, East side Claridge street, South of Cottman, \$5,000 each. Architect, private plans. Owner, Michael Glazer, 1238 North Lawrence street, Philadelphia. Frame, 2 stories, 16x37 feet, hardwood floors, electric lighting, hot water heating, tile work. Owner will build.

**Residences (4)**, East side Lawndale avenue, South of Bleigh, \$4,800 each. Architect, private plans. Owner, Henry J. Tunstall, 1006 Cottman street, Philadelphia. Frame, 2 stories, 15½x45 feet, hardwood floors, hot water heating, electric lighting. Owner will build.

**Residences and Garages (2)**, West side Marvine, South of Clarkson, \$5,000 each. Architect, private plans. Owner, S. A. Buckman, 1128 Somerville avenue, Philadelphia. Brick, 2 stories, 15x35 feet, hardwood and cement floors, slag roof, electric lighting. Owner will build.

**Residences (6)**, Dana and Whitney streets, Philadelphia, \$5,000. Architect, private plans. Owners, Curtis, Houseman & McGraw, Somerton, Pa. Brick, 2 stories, various sizes, slag roof, hardwood floors, electric light. Owners will build.

**Residence**, North side Shelmire street, East of Tabor road, \$5,000. Owner, Jacob Hinkel, 2016 North Eighteenth street, Philadelphia. Frame, 2 stories, 24x32 feet, hardwood floors, electric lighting, hot water heating. Owner will build.

**Residence and Store (add.)**, 6415 Woodland avenue, \$3,400. Architect, private plans. Owner, Thomas M. Cockerell, 2242 St. James Place, Philadelphia. Brick, 1 story, 16x16 feet, add., slag roof, pine floors, electric light. Owner will build.

**Residence**, North side Gilham street, East of Bingham street, \$3,000. Architect, private plans. Owner, Gustav Beister, 1116 Magee street, Philadelphia. Brick, 2 stories, 15½x35 feet, slag roof, pipeless heating, electric lighting. Owner will build.

**Garage**, 2019 East Fifth street, Philadelphia, \$3,000. Architect, private plans. Owner, Raymond Calvo, on premises. Brick, 1

story, 33x32 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (13)**, Morton and Duval streets, Philadelphia, \$71,800. Architect, private plans. Owner, William Cooper, 5308 Wakefield street, Philadelphia. Brick, (13) 2 stories, 15x30 feet, 11x9 feet, (1) 2 stories, 16x40 feet, hot water heat, electric light, tile work. Owner will build.

**Residences (6)**, East side Montague street, North of Tyson, \$4,800 each. Architect, private plans. Owner, E. S. Gereke, Tyson and Algood streets, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, electric lighting. Owner will build.

**Residences (4)**, South side Brewster street, East of Eighty-third, \$3,000 each. Architect, private plans. Owner, Karl Rodin, 8123 Chelwinde avenue, Philadelphia. Brick, 2 stories, 16x32 feet, 8x8 feet, slag roof, electric lighting. Owner will build.

**Garage**, 1011-13 Arrott street, Philadelphia, \$3,000. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Helen Johnston, 1011 Arrott street, Philadelphia. Brick, 1 story, 48x19½ feet, slag roof, cement floors, electric lighting. Architect taking sub-bids.

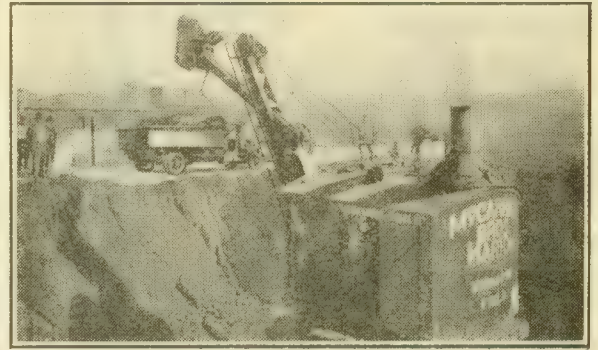
**Residence**, West side Torresdale avenue, North of Linden, \$2,000. Owner, Thomas Dysart, on premises. Frame, 1 story add., 22x28 feet, hardwood floors, electric lighting. Owner will build.

**Residences (8)**, North side Knorr street, West of Jackson, \$4,000 each. Architect, private plans. Owner, Robert L. Gereke, 7123 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x40 feet, hot air heat, electric light. Owner will build.

**Residence and Store (alts. and add.)**, Southeast Corner Seventh and Green streets, Philadelphia, \$3,000. Architect, private plans. Owner, K. Jaffas, on premises. Brick, 3 stories, 6x14 feet, general alterations. Owner will build.

**Dwellings (12)**, North side Penn street, East Magnolia avenue, \$60,500. Architect, private plans. Owner, C. Kiely, 312 West Seymour street, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, hot water heat, electric work, hardwood floors. Owner will build.

**Miscellaneous Work**, Department of Public Works, Philadelphia. Owners, Department of Public Works, Bureau of Highways, F. H. Caven, 232 City Hall, Philadelphia. Asphalt paving, vitrified block paving, bituminous dust layer, removal of buildings on line of Spring Garden street, dredging Schuylkill River, fuel oil storage tanks, steel fabric reinforcement, ready mixed cement concrete, ar-

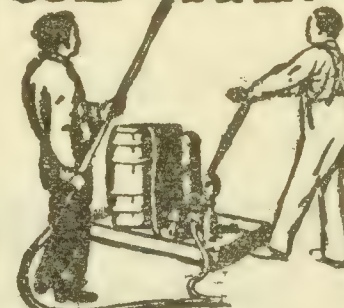


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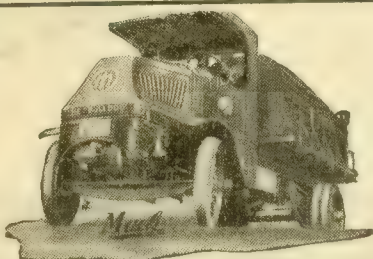
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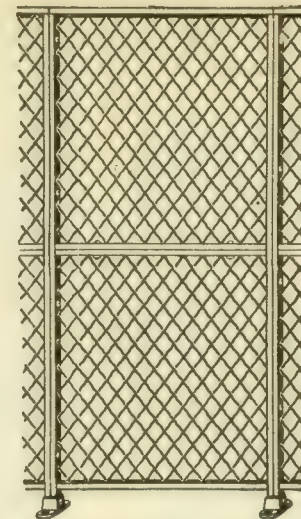
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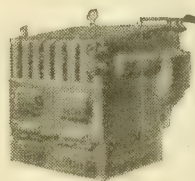
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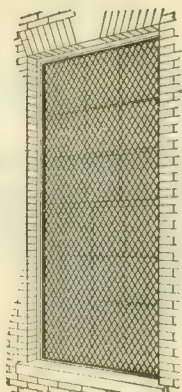


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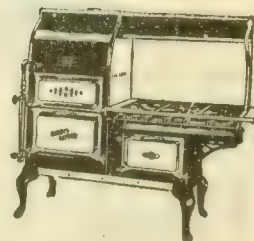
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**Mill Creek Playground**, Forty-seventh and Aspen streets, Philadelphia. Architect, City Architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Bureau of Recreation, Department of Public Welfare, 595 City Hall. Concrete retaining walls, demolition, painting, iron fence, grading, surfacing. Owners taking bids due April 24th at noon.

**Chimneys (alts.)**, Spec. 4818, Navy Yard, Philadelphia. Architect, private plans. Owners, Bureau of Yards and Docks, L. E. Gregory, Chief, Washington, D. C. New foundation of wood piles and reinforced concrete under and around existing chimney, transferring load to new foundation and repairing the breeching. Owners taking bids due May 9th. Deposit, \$10.00. Plans may be secured from Bureau Chief at Washington, D. C., or Commandant, Navy Yard, Philadelphia.

**Hotel (alts.)**, Old York Road and Church Road. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Ogontz Realty Co., care of Forrest H. Roberts, chairman of Building Committee, Glenside National Bank, Glenside, Pa. Changing into 4 stores, bank branch and 8 apartments. Brick and stone add., 1 story, 8x85 feet and 14x50 feet. Owners will build and will take sub-bids.

**Residences (17)**, Eighteenth street and Sixty-eighth avenue, Philadelphia. Architect, E.

Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Russell H. Foster, Sixty-seventh and Ogontz avenue, Philadelphia. Brick, 2 stories, 18x30 feet and 20x32 feet, slate, slag, tile and tin roof, hardwood floors, hot water heating, electric lighting, tile and marble work, metal lath, cement work, garages in basements. Owner is taking sub-bids.

**Residence (alts. and add.)**, Rittenhouse

Square Section. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, name withheld. General alterations and addition. Plans in progress. Too early for details.

**Garage**, 4941 Lancaster avenue, Philadelphia. Architect, private plans. Owners, Tate Brothers, on premises. Brick, 1 story, 50x45 feet, slag roof, cement floors, copper skylights, bond, iron work. Owners taking bids.

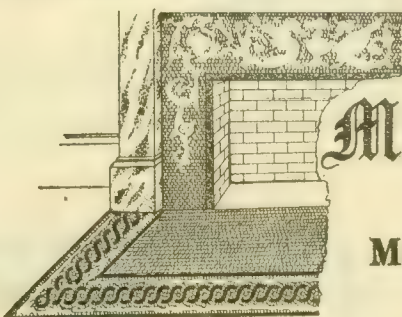
## Contracts Awarded

Scope of Contract and Successful Bidders; “Inside” Information for the Material Man and Interior and Exterior Fitter.

**School Building**, Seventeenth, Pollock and Eighteenth streets and Moyamensing avenue, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Brick, steel, granite, cut stone, concrete and limestone, 3 stories and basement, 171x147 feet, slag roof, cement and maple floors, hollow tile, metal ceilings, cold water painting, waterproofing and dampproofing, terra cotta, iron work, bond, rolled steel sash and skylights, metal lath (heating, lighting, electric work and ventilating separate bids). Contracts awarded to William R. Dougherty, 1610 Sansom street, Philadelphia, \$486,471. Plumbing, Bulman Brothers, Fourth and Cumberland

streets, \$21,266. Heating, S. Faith & Co., 2427 Pennsylvania avenue, \$46,400. Ventilating, W. Howlett & Co., Fourth and Columbia avenue, \$1,526. Electric, Strang Elect. Co., 214 South Seventh street, \$16,591.

**Sales and Service Building**, 1427 North Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Jacob C. Kahn, Morris Building, Philadelphia. Reinforced concrete, limestone, brick and steel, 2 stories, 160x20 feet, slag roof, cement and pine floors, metal ceilings, iron work, bond, copper skylights, metal lath and tile work. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.



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**Stores (24) and Garage**, Broad and Shunk streets, \$115,000. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Harry P. Sharp Navy Realty Co., Fifty-third and Thomas avenue, Philadelphia. Reinforced concrete, brick and steel, 1 story, 16x30 feet, and 2 stories, 80x290 feet, slag roof, pine and cement floors, metal ceilings, flush bulks, plate glass, fire doors, rolled steel sash, electric lighting, steam heating. Contract awarded to William G. Uhlers' Sons, 1909 McKean street.

**Office and Storage Building**, 1808-10 Chestnut street. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, George, Samuel T. and A. B. Freeman, 1519 Chestnut street. Brick, steel, stone and concrete, 6 stories, 45x115 feet, slag roof, steam heat, electric lighting, tile and marble work, elevators. Plans will be ready for sub-bids April 19th. Contract awarded to R. M. Peterson & Son, 6 Queen Lane, who will take sub-bids.

**Store Building**, 1611 Chestnut street, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Blaylock & Blynn, 1526-28 Chestnut street, Philadelphia. Brick, terra cotta and stone, 3 stories, 22x170 feet, slag roof, elevators, hollow metal sash, plastering. Plans in progress. Contract awarded to Ketcham & McQuade, 1029 Brown street.

**Mill Building**, Southeast Corner Dauphin and Tulip streets, \$200,000. Architect, Isaac H. Francis, Otis Building. Owner, William G. Gravell, Otis Building, Philadelphia. Owners, Pollock Huston Co., on premises. Brick, concrete and steel, 4 stories, 100x100 feet, built-up roof, cement floors, roof ventilators, iron work, metal lath, rolled steel sash. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

**Office Building**, Northeast Corner Fifteenth and Manning streets. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Benj. Dintenfass, Lafayette Building, Philadelphia. Reinforced concrete, brick and steel, 3 stories, 16x52 feet, slag roof, concrete floors, metal lath, hollow tile, rolled steel skylights, iron work, metal stairs, floor hardener, bond. Contract awarded to J. Korman, 5020 Rosehill street.

**Sales and Service Building**, Greene street and Cheltenham avenue. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Rittenhouse Motor Car Co., on premises.

#### POSITION WANTED

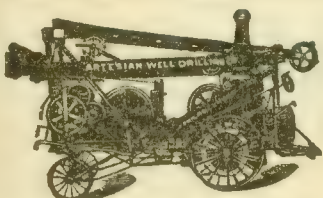
Well educated young man, experienced in building construction, thoroughly competent to handle all clerical details and assist with estimating in the office, or act as clerk of the works in the field, desires position in or out of Philadelphia. Address "Builders' Guide," AA, Perry Bldg., Phila., Pa.

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Brick, concrete, limestone and steel, 2 stories, 63x81 feet, slag roof, cement floors, iron work, bond, tile work (heating, electric work and plumbing reserved). Contract awarded to J. B. Kelly, 2313 Walnut street, Philadelphia.

**Runway**, 2925 North Broad street, Philadelphia, \$30,000. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Joseph J. Greenburg, Morris Building, Philadelphia. Reinforced concrete runway. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

**Church Building (add.)**, Sixty-third and Malvern avenue, Overbrook, \$45,000. Architect, George E. Savage, Witherspoon Building. Owners, Overbrook Baptist Church, on premises. Stone and cut stone, 1 story, 54x56 feet, slate and composition roof, pine floors, steam heat, electric light, metal lath, bond, tile work, iron work. Contract awarded to George B. Bond, Sixty-fifth and Oak Lane avenue.

**Residence (alts.) to Stores and Apartments (5)**, 1615-1621 Margaret street, Frankford. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, Mark Harper, 4622 Penn street, Frankford, Philadelphia. Carpentry, mill work, brick work, slag roof, hot water heating, electric light, tile work, bulk windows, iron work, steel work. Contract awarded to Rush Brothers, 1016 Harrison street.

**Bank, Store and Dwelling Building**, Old York road and Sixty-seventh avenue, Oak Lane, Philadelphia. Architects, McLanahan & Benckert, Bellevue Court Building, Philadelphia. Owners, Oak Lane Trust Co., care of architect. Brick, cut stone, steel and reinforced concrete, 2 stories and basement, 184x61x10 feet, slag roof, cement, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, bond, iron work, waterproofing. Contract awarded to Frank V. Warren Co., 132 South Seventeenth street.

**Residence and Garage**, West School Lane and Oak Road, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building. Owner, Mrs. John F. Keator, 218 West Walnut Lane, Philadelphia. Stone, brick, concrete block, cut stone and steel, 2½ stories, 94x50 feet and 1½ stories, 28x23 feet, slate or shingle roof, oak, pine and cement floors, iron work, bond, (heating, electric work, plumbing, tile and cork composition floors reserved). Contract awarded to R. C. Balingier Co., 925 Walnut street.

**Office Building (alts.)**, 1607-09 Walnut

street, \$20,000. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Reilly, Brock & Co., 306 Chestnut street, Philadelphia. Marble and tile work, new entrance, brick, cut stone, steam heat, electric work, plastering, metal lath. Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

**Office (alts.)**, Southeast Corner Fifth and Ludlow streets, \$10,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. General alterations. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

**Building (alts.)**, 1633 Chestnut street, Philadelphia, \$3,000. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Halpin, Boyd & Turner, 135 South Fifteenth street, Philadelphia. Brick and steel work, steam heating, alterations, electric work, plumbing, metal lath, marble and terrazzo, oak and pine floors, bond, iron work, dumb waiter. Contract awarded to William S. Gore 6 North Forty-first street, Philadelphia.

**Community Garage (16-car)**, Franklin street, North of Oak Lane avenue, Oak Lane, Philadelphia. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owner, John S. Baughman, 6615 North Seventh street, Philadelphia. Brick and stone, 1 story, slag roof, cement floors, metal partitions, painting, glazing, heating, electric lighting and plumbing. Contract awarded to Frank De Silver, 7321 Chestnut avenue, Oak Lane Terrace, Oak Lane.

**Residence**, Arbutus street, Germantown, Philadelphia. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, Daniel Badger, Jr., Forty-fifth and Osage avenue, Philadelphia. Stone and cut stone, 2½ stories, 28x54 feet, slate roof, oak and pine floors, tile and marble work (heating, electric work and plumbing reserved). Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Building (alts.)**, 616-18 Arch street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Paul M. Mayers, 1714 Chestnut street, Philadelphia. Brick, concrete, cast stone, granite and limestone, slag roof, cement floors, electric work, metal lath, tile and marble work, rolled steel sash and skylights. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

**Garage (add.)**, 1214-22 Frankford avenue, Philadelphia, \$9,000. Architect, private plans.

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Owner, Harry S. French, Jr., 1204 Frankford avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric. Contract awarded to W. H. B. Sanders, 1234 Marlborough street.

**Residences and Store (alts.)**, Northwest Corner Fifty-eighth and Woodland avenue. Architect, private plans. Owner, Arthur C. Matz, on premises. Extensive alterations. Contract awarded to P. J. Nardy & Co., 5905 Woodland avenue.

**Warehouse (alts.)**, 219 Chestnut street, Philadelphia, \$6,000. Architect, private plans. Owners, Riddle Company, on premises. General alterations. Contract awarded to Knox Landers Co., 1132 Vine street, Philadelphia.

**Residences**, Northwest Corner Castor Road and Foulkrod street, \$15,000. Architect, private plans. Owner, William K. Graner, 1850 Frankford avenue, Philadelphia. Brick, 3 stories, 20x36 feet, 14x12 feet, slag roof, hardwood floors, electric lighting, tile work. Contract awarded to Frank Achuff, 1600 North Front street, Philadelphia.

**Factory**, Hancock and Clearfield streets, Philadelphia, \$7,500. Owners, Thomas H. Dallett & Co., Broad and Federal streets. Iron, 1 story. Contract awarded to Trucon Steel Co., 1432 South Penn Square.

**Residence and Store (alts. and add.)**, 4200 Chester avenue, \$6,000. Architect, private plans. Owner, Harry Rose, 4635 North Eleventh street, Philadelphia. Brick, 1 story, 13x45 feet, and 1 story, 8x28 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Louis Silk, 1913 North Patton street.

**Residences (2)**, East side Palmetto street, South of Bleigh, \$9,000. Owner, Leslie F. Quinlan, 917 Parrish street, Philadelphia. Brick, 2 stories, 16x35 feet, electric light, hardwood floors. Contract awarded to Maurice T. Quinlan, 7411 Lawndale avenue.

**Residence**, East side Williams avenue, North of Upsal street, \$6,000. Architect, private plans. Owner, John Ganter, Washington Lane, Germantown, Philadelphia. Brick, 2 stories, 16x38 feet, 10x16 feet, slag roof, hardwood floors, tile work, electric lighting. Contract awarded to William G. Krewson, Forrest avenue, Germantown.

**Residences (2)**, Ditman and Pratt streets, (6) Edmund and Howarth streets, Philadelphia, \$38,000. Owners, J. Florkowski, 4837 Tacony street, Philadelphia. Brick, 2 stories, (2) 16x39 feet, (1) 16x51 feet, and (5) 14x25 feet, 11x13 feet, slag roof, hardwood floors, electric lighting. Contract awarded to John Kazmerizak, 4827 Tacony street.

**Residence**, East side Torresdale avenue, South of Longshore street, \$5,000. Architect, private plans. Owner, William Mignone, care

of builder. Brick, 2 stories, 28x45 feet, electric light, hardwood floors, tile work. Contract awarded to A. Mignone, 7746 Ditman street, Philadelphia.

**Two-Family Residence (alts.)**, 3909 Walnut street, \$3,500. Architect, private plans. Owner, Isadore Moskowitz, 733 Walnut street, Philadelphia. General alterations. Contract awarded to H. A. O'Dom, 1015 South Seventeenth street, Philadelphia.

**Residence**, North side Godfrey avenue, East of Newton avenue, \$6,500. Architect, private plans. Owner, A. Palusiano, on premises. Brick, 2 stories, 30x20 feet, 16x9 feet, hardwood floors, electric lighting, tile work. Contract awarded to Charles Davolio, 5921 McMahon avenue.

**Residences and Stores (2) (alts. and add.)**, 1009-11 North Fourth street. Architect, private plans. Owner, J. Edelstein, 605 Dickinson street, Philadelphia. Brick, 3 stories, 12x9 feet, slag roof, pine floors, electric light. Contract awarded to Morris Kravitz, 823 North Marshall street.

**Warehouse (repairs)**, Northwest Corner Twenty-fifth and Morris streets, \$3,000. Architect, private plans. Owners, Martin & Esen, 915 Walnut street, Philadelphia. General fire repairs. Contract awarded to N. F. Epstein, 2221 North Franklin street.

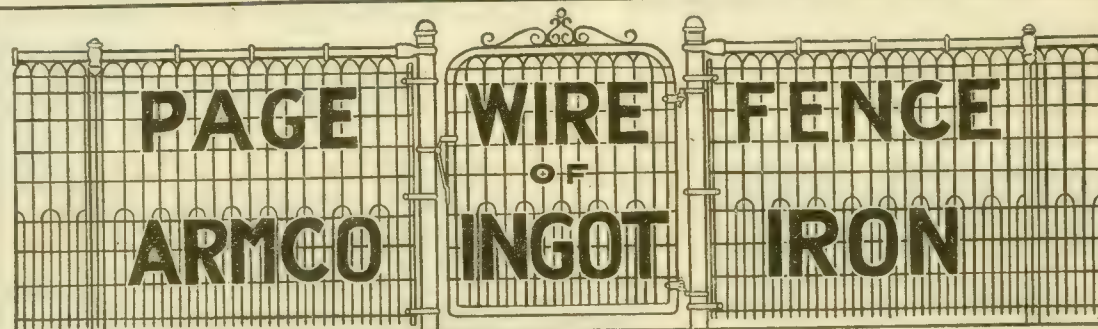
**Residence and Store (add.)**, Southwest Corner Fifty-fourth and Euclid avenue, \$2,200. Architect, private plans. Owner, M. Chuse, on premises. Brick, 1 story add., 16x20 feet, pine floors, electric work. Contract awarded to Max Friedman, 411 Snyder avenue, Philadelphia.

**Residence and Store (add.)**, 5023 Lancaster avenue, \$2,200. Architect, private plans. Owner, Frank Di Nardo, on premises. Brick, 1 story add., 16x16 feet, pine floors, electric work. Contract awarded to Frank R. Bilotta, Southeast Corner Seventh and Christian streets, Philadelphia.

**Studio and Office (alts.)**, 254 South Van Pelt street, \$3,200. Architect, private plans. Owner, Sarah Grvoer, 342 South Smedley street, Philadelphia. General alterations. Contract awarded to George P. Clayton, 1817 North Twentieth street.

**Residence**, 228 West Washington Lane, Philadelphia, \$3,000. Architect, John Emlen Bullock, 34 South Seventeenth street, Philadelphia. Owner, A. J. R. Gallagher, Thirty-first and Jefferson streets. General alterations. Contract awarded to E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

**Residence (add.)**, Southwest Corner Bingham and Cottman streets, \$3,500. Architect, private plans. Owner, J. H. Callahan, on premises. Brick, 1 story add., 34x23 feet, slag roof, electric lighting. Contract awarded



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**Barn and Stable**, North side Mechanicsville Road, West of Dunk's Ferry Road, Philadelphia, \$2,800. Architect, private plans. Owner, L. Paul Knight, care of builder. Frame, 2 stories, 38x40 feet. Contract awarded to Hes-ton & Olsitz, Churchville, Pa.

**Residence (add.)**, Southwest Corner Rising Sun avenue and Palmetto street. Architect, private plans. Owner, Harry Powell, on premises. Brick, 2 stories, 16x14 feet, slag roof, electric lighting. Contract awarded to C. C. Campbell, 6419 Bingham street, Philadelphia.

**Shop (add.)**, 915 North Seventeenth street, Philadelphia, \$2,270. Owner, A. Albert, 2530 Ridge avenue, Philadelphia. Brick, 1 story add., 18x47 feet, slag roof, pine floors. Contract awarded to Frank L. Wintz, 1618 North Twenty-seventh street.

**Dwellings (2)**, East side Rising Sun avenue, South of Cottman street, \$7,000 each. Architect, private plans. Owner, Gus Widmaier, Cheltenham, Pa. Brick, 2 stories, 16x60 feet, hot air heat, electric work, slag roof, hardwood floors. Contract awarded to Jacob Gaertner, 7225 Oxford avenue, Philadelphia.

**Building (add.)**, 4945 North Broad street, Philadelphia, \$4,500. Owners, Tidd Brothers, on premises. Brick, 1 story, 28x20 feet, and 2 stories, 10x20 feet, slag roof, pine floors, electric lighting. Contract awarded to T. A. Stoneborough, 1509 Champlost street.

**Warehouse (add.)**, 639 North Watts street, Philadelphia, \$4,000. Architect, private plans. Owners, Thomas Saville & Sons, 1310 Wallace street, Philadelphia. Brick, second story add., 30x40 feet, slag roof, pine floors. Contract awarded to Seeds & Steinmetz, 551 South Yewdall street.

**Residence and Store (add.)**, 1746 East Passyunk avenue, \$4,000. Architect, private plans. Owner, Angelo Arena, 1744 East Passyunk avenue, Philadelphia. Brick, 3 stories add., 12x20 feet, electric light, pine floors. Contract awarded to Joseph D. Silvestos, 1505 Arch street.

**Garage**, North side Tioga street, East of Palethorpe street, \$4,000. Architect, private plans. Owner, Albert Steiger, 2944 North Hancock street, Philadelphia. Brick, 1 story, 80x16 feet, cement floors, slag roof. Contract awarded to A. Winder, 2608 Fairhill street, Philadelphia.

**Residences (4)**, East side Claridge street, North of Bleigh, \$3,500 each. Architect, private plans. Owners, Northeast Building Co., 857 Cottman street, Philadelphia. Brick, 2 stories, 14x42 feet, slag roof, oak and pine floors. Contract awarded to C. Edwards, 857 Cottman street, Philadelphia.

**Garage**, 3259 Gaul street, Philadelphia, \$3,000. Architect, private plans. Owner, R. Gorham, 2311 Gaul street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Contract awarded to Richard J. Diamond, 2834 East Thompson street.

**Residences and Store (alts.)**, 1604 West Columbia avenue, \$2,580. Architect, private plans. Owner, H. Wasserman, on premises. General alterations. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

**Reviewing Stand**, Northwest Corner Sixty-fifth and Elmwood avenue, \$3,000. Owners, Colonial Ice Cream Co., 855 North Fourth street, Philadelphia. Frame. Contract

awarded to France & Missar, 6725 Yocum street.

**Garage**, 4717 Chester avenue, Philadelphia, \$2,000. Architect, private plans. Owner, John J. Ferry, on premises. Brick, 1 story, 20x42 feet, slag roof, cement floors. Contract awarded to David D. Scott, 1115 South Forty-seventh street.

**Garage**, 6419 Woodland avenue, Philadelphia, \$2,000. Architect, private plans. Owner, John Averell, on premises. Brick, 1 story, 50x18 feet, slag roof, cement floors. Contract awarded to Julius Nelson, Darby, Pa.

**Garage**, 2916-20 North Croskey street, Philadelphia, \$7,000. Architect, private plans. Owner, Henry A. Regner, 2920 North Twenty-second street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Contract awarded to Jacob Hansen, Afton street, Fox Chase.

**Garage**, West side Trenton avenue, North of Clearfield, \$6,500. Owners, Brehm & Stehly, Trenton and Allegheny avenues, Philadelphia. Brick, 1 story, 52x52 feet, slag roof, cement floors. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street.

**Synagogue (alts. and add.)**, 1921 South Sixth street, \$6,000. Owners, Atereth Israel Cong., on premises. Brick, 2 stories, 16x30 feet, general alterations. Contract awarded to Shechter & Levitt 526 Mifflin street.

**Buildings (alts.)**, Girard College, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Stephen Girard Est., Stephen Girard Building, Philadelphia. General alterations. Contract awarded to Franklin H. Harris & Co., 1520 Parrish street, Philadelphia.

## Pennsylvania Construction News

**Lewis A. Mason Memorial Hospital**, West Chester, Pa., \$600,000. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Pierre S. du Pont, Wilmington, Del. Brick, stone, steel and concrete, 2 stories. Preliminary plans in progress. Too early for details.

**Residence**, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, name withheld. Stone and shingle, 2½ stories, 26x38 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Plans in progress. Will take bids in one week.

**Twin Residence**, Darby, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Raymond Water, Drexel Building, Philadelphia. Frame and stucco, 2½ stories, 21x36 feet each, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence (alts. and add.)**, Overbrook, Pa. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, name withheld. Brick, 1 story, 18x15 feet, slate roof, pine floors, electric light, sheetrock wall board. Plans in progress.

**Academy Building**, Erie, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, care of Mother Superior, Titusville, Pa. Architect selected. Sketches drawn.

**Residences (2)**, Bryn Mawr, Pa. Architects,

Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Joseph Carson and Mrs. William Rudolph Smith, 1524 Chestnut street. Stone, 2½ stories, 70x80 feet and 39x38 feet, slate roof, oak and pine floors, hot water heating, electric light, metal lath, tile work, iron work. Architect taking bids due April 23rd at noon.

**Inst. Building**, Bryn Mawr, Pa. Architects, Allen & Collins, 75 Newberry street, Boston, Mass. Owners, Baldwin School, Bryn Mawr, Pa. Brick, stone, limestone and stele, 2½ stories, 147x91 feet, slag and slate roof, cement and maple floors, waterproofing, terra cotta, iron work, iron stairs, metal lath, marble and terrazzo. Architects taking bids due April 20th.

**Club House**, Shamokin, Pa., \$35,000. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Shamokin Valley Country Club, D. H. McGhee, Shamokin, Pa. Frame and stucco, 1 story, 60x80 feet, shingle roof, steam heating, electric light, tile and terrazzo work, hollow tile, steel lockers, promenade tile. Architect taking bids due April 21st.

**Residence**, York Road, Abington, Pa. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mrs. G. Harting, 4147 Germantown avenue. Stone, 2½ stories, electric lighting, tile work, slate roof, hardwood floors. Architect taking revised bids due April 20th.

**High School (alts. and add.)**, Swarthmore, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Swarthmore High School, H. C. Stuart, superintendent, College avenue, Swarthmore, Pa. Brick, cut stone, steel and concrete, 2½ stories and basement, 106x66 feet, wing 90x90 feet, etc. No bids opened April 10th. Owners taking bids due April 19th at 8.20 P. M.

**Paint Shop**, Eddystone, Pa. Architect, private plans. Owners, Baldwin Locomotive Works, 500 North Broad street, Philadelphia. Brick, concrete and steel, slag roof, rolled steel sash, fire doors, cement floors. Owners will build.

**Residence**, Lansdale, Pa. Architect, S. S. Conner, Lansdale, Pa. Owner, Samuel D. Conner, Lansdale, Pa. Stone, 2½ stories, 26x38 feet, slate roof, hot water heat, electric lighting, hardwood floors, tile work. Architect is taking sub-bids.

**Residences (2)**, Bryn Mawr, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, Main Line Const. Co., Ardmore Theatre Building, Ardmore, Pa. Brick and Penn Building Block, 3 stories, 24x36 feet, composition roof, hardwood floors, hot water heat, electric light, tile work. Owners are taking sub-bids.

**Bank and Office Building**, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Guaranty Trust & Safe Deposit Co., Shamokin, Pa. Brick, granite, reinforced concrete and steel, 1 story and mezzanine, 95x50 feet, asbestos built-up roof, cork tile and cement floors, hollow tile, metal ceilings, iron work, bond, rolled steel sash, tile and marble work, metal lath, electric lighting, steam heating. Lowest bidder: Shamokin Lumber & Const. Co., Shamokin, Pa., \$197,000.

**Residence and Garage**, Malvern, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Malvern Realty Co., care of architect. Stone, hollow tile and stucco, 2½ stories. Plans in progress. Too early for details.

**Residence**, Villa Nova, Pa. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owner, George R. Packard, Fifth and Walnut streets, Philadelphia. Stone, 2½ stories, 107x31 feet, wing 30x20 feet, garage, 1½ stories, 17½x22 feet, shingle roof, hardwood floors, cement work,

## CHAPMAN SLATE CO.

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tile and marble work (heating, lighting and plumbing reserved). Architects taking bids due April 27th.

**School**, Lebanon, Pa., \$225,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon School Board, W. R. Mark, secretary, Lebanon, Pa. Brick, hollow tile, structural steel, iron, 2 stories and basement, 247x78 feet, tile roof, composition floors (electric work, heating and plumbing reserved), partitions, tile and terrazzo work, rolled steel sash and skylights, cast stone, roof ventilators, waterproofing and dampproofing, hollow metal doors, iron stairs, bond. Owners taking bids due April 27th.

**Church**, East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Grace Lutheran Church, Rev. Ristler, East Stroudsburg. Stone, 1 story and basement, 60x60 feet, slate roof, maple and cement floors, steam heat, electric light, tile work. Architects taking bids due May 2nd.

**Twin Residence**, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owners, Yaffee & Blumberg, 14 South Seventh street, Reading, Pa. Hollow tile, 3 stories, 73x35 feet, tile roof, hardwood floors, hollow tile (heating reserved), electric light, metal lath, tile and marble work, ornamental iron work. Architect taking bids due April 20th.

**Manufacturing Plant**, Bethlehem, Pa. Architect, private plans. Owners, Confederate Home Abattoir Corporation, care of Mr. William F. Gorman, treasurer, 314 American Casualty Building, Reading, Pa. Slaughter house and manufacturing plant, reinforced concrete and brick, 5 stories, 140x140 feet, by-products building, brick, 1 story, 33x99 feet. (2) Stock pens, reinforced concrete and brick, 1 story, 99x30 feet each. Scale house and unloading chute, reinforced concrete and brick, 1 story, 240x10 feet. Bond. Owners taking bids due May 15th at 5 P. M.

**Church and Parsonage**, Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Evangelical Lutheran Church of the Holy Trinity, Lebanon, Pa. Stone, 1 story and basement, and 2 stories and basement. Owners taking new bids due April 30th at 6 P. M.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Owners taking bids due May 1st at 10 A. M. Certified check required. Forms and specifications free. Plans, \$2.50 per set.

Butler County, Appli. 2262, Butler and Summit Townships, 30,062 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$4,000.

Butler County, R-233, A-2311, 2312, 2313, Worth and Slippery Rock Townships and Slippery Rock Borough, 22,705 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Cambria County, R-276, A-2306, Portage and Washington Townships, Portage, Cassandra and Lilly Boroughs, 23,888 feet. One course reinforced concrete. Certified check, \$4,000.

Crawford County, R-271, A-2247-2251, Rome and Steuben Townships and Centreville Borough, 21,312 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Check, \$4,000.

Erie County, R-304, A-2329, Amity Township, 14,438 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,500.

Indiana County, R-54, A-2158, White Township, 21,816 feet. One course reinforced concrete. Certified check, \$4,000.

Lackawanna County, Route 168, Elmhurst Borough, 614 feet. Hillside vitrified brick. Certified check, \$1,000.

Lawrence County, Route 265, A-2272, North

Beaver Township, 19,683 feet. One course reinforced concrete and hillside vitrified brick. \$3,500 check.

Mercer County, R-206, West Salem and Green Townships and Jamestown Borough, 31,219 feet. Either bituminous surface course on a concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Mercer County, R-238, Hickory Township and Sharon City, 4,652 feet. One course reinforced concrete. Certified check, \$1,000.

Northampton County, A-2231, Nazareth Borough, 5,492 feet. One course reinforced concrete. Certified check, \$1,500.

York County, R-332, A-2388, Sec. 3, Spring Garden Township, 5,875 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

York County, R-230, A-2177, Heidelberg Township, 19,975 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

York County, R-216, A-2175, Sec. 3, Lower Chancefore Township, 26,812 feet. Either vitrified surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

**Church**, Shamokin, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lutheran Church, care of architects. Architects selected. Too early for details.

**Church**, Gettysburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, First Methodist Episcopal Church, Rev. Daniels, Gettysburg, Pa. Too early for details.

**Rectory**, Tuscarora, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Rev. E. J. Boyle, Tuscarora, Pa. Brick or frame, 2 stories, 25x40 feet, steam heat, electric light, pine floors. Plans in progress.

**School (alts.)**, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Mary's Roman Catholic Church, Rev. Walusecke, 120 Spruce street, Reading, Pa. Partitions, steam heat, blackboards, plumbing. Plans in progress.

**Bank**, Dover, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Dover National Bank, Mr. Lauer, care of architect. Brick, Indiana limestone, 1 story and basement, 30x64 feet, slag roof, tile or marble floors, vapor heat, electric light, metal lath, bank fixtures, metal window guards. Architect will be ready for bids April 20th, due May 3rd.

**Cottage**, Morrisville, Pa. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 25x30 feet, shingle roof, hardwood floors, hot air heating, electric lighting. Plans in progress.

**Club (alts. and add.)**, Front street, Harrisburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg. Owners, Civic Club, care of architect. Stucco, timber, 2 stories, 30x58 feet, tile roof, hardwood floors, central heat, electric light. Plans in progress.

**Nurses' Home**, Gettysburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, Werner Hospital, care of architect. Brick, 2 stories, 48x60 feet, slate roof, composition floors, steam heat, electric light, tile work. Plans in progress.

**Double Residence**, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, F. H. Bierman, 646 Cleveland avenue, York, Pa. Brick, 2½ stories, 35x50 feet, slate roof, hardwood floors, vapor heat, electric light. Plans in progress.

**Residence**, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, F. R. Zinn, care of architect. Stucco, 2½ stories,

35x25 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Stores and Apartments (4)**, Baltimore street, Hanoer, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, C. Y. Myers, 305 Baltimore street, Hanoer, Pa. Brick, 3 stories, 80x100 feet, composition roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, store fixtures, waterproofing, terra cotta. Owner ready for bids.

**Stores (2), Apartments (6)**, Third street, Harrisburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owner, Mr. Garner, Third and Herr streets, Harrisburg, Pa. Brick, 3 stories, 60x30 feet, composition roof, pine floors, tile work, central heat, electric light. Architects taking bids due April 19th.

**Bank (alts. and add.)**, Williamstown, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Williams Valley Bank, care of architects. Owners taking bids due April 24th. (Note extension.)

**Business Building**, Red Lion, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, Zarfoss & Burg, Red Lion, Pa. Brick and steel, 3 stories and basement, 70x200 feet, composition roof, pine floors, vapor heat, electric light, rolled steel sash, elevators, waterproofing and dampproofing. Owners taking bids due as soon as possible.

**Residence (alts. and add.)**, Wayne, Pa. Architect, Carl A. Ziegler, 1309 Locust street, Philadelphia. Owner, William R. Verner, Huntingdon and Reese streets, Philadelphia. Stone, 2½ stories, 28x20 feet, slate roof, oak and pine floors, central heating, electric lighting, tile work, iron work (hardware reserved). Architect taking bids due April 21st.

## Pennsylvania Contracts Awarded

**Bank and Office Building (add.)**, Reading, Pa. Architects, Ritcher & Eiler, 137 North Fifth street, Philadelphia. Owners, Berks County Trust Co., on premises. Brick, steel, concrete, stone and granite, 5 stories, 20x230 feet, slag roof, concrete floors, hollow tile, elevators, tile and marble work, metal lath, steam heating, electric lighting. Contract awarded to Fink Const. Co., Reading, Pa.

**Residence and Garage**, Elkins Park, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, F. E. Dixon, 1428 Walnut street, Philadelphia. Brick, 3 and 2½ stories, irregular size, slag roof, oak and pine floors, iron work, hot water heat, electric lighting, tile and iron work. Contract awarded to George F. Payne, Stock Exchange Building.

**Residences (2)**, Drexel Road, Ardmore, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Dr. Charles Barber, Simpson Road, Ardmore, Pa. Stone, 2½ stories, 30x46 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Merion Const. Co., 2315 Walnut street.

**Garage**, Second and Welsh streets, Chester, Pa. Architect, private plans. Owners, Philadelphia Suburban Gas Co., care of Sixth and Welsh streets, Chester, Pa. Brick and steel, 1 story, 127x48 feet, asbestos built-up roof, cement floors, rolled steel sash, bond, iron work. Contract awarded to H. Louis Morris, Chester, Pa.

**Bank (alts. and add.)**, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Conestoga National Bank, care of architect. Brick, 1 story, 24x50 feet, slag roof, linoleum floors, electric light, roof ventilators, rolled steel skylights, bank



fixtures. Contract awarded to H. L. Wiant, 544 Mill street, Lancaster, Pa.

**Residence**, Malvern, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Frank A. Hughes, Malvern, Pa. Frame, 2½ stories, 26x35 feet, shingle roof, hardwood floors, vapor heating, electric lighting, tile work. Contract awarded to E. E. Ruth, Malvern, Pa.

**Residence**, Lancaster, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, W. S. Detweiler, Lancaster, Pa. Brick, 2½ stories, 36x48 feet, 17x22 feet, 20x22 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble. Contract awarded to H. L. Wiant, 544 Mill street, Lancaster, Pa.

## New Jersey Construction News

**Residence**, Margate, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, William S. Emley, 3100 Atlantic avenue, Atlantic City. Brick, 2½ stories, 30x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Sketches in progress.

**Memorial Municipal Building and Swimming Pool**, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, care of L. Steinbrecker, Atlantic City. Concrete, 2 stories, 250x100 feet, concrete and pine floors, electric light, waterproofing. Revised plans in progress.

**Hall**, North Mississippi avenue, Atlantic City, N. J. Architect, E. Amodio, Segal Building, Atlantic City, N. J. Owners, St. Michael's Church, Atlantic City, N. J. Brick, 3 stories, 40x100 feet. Plans in progress.

**Cottage**, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, D. Murtland, 209 North Arkansas avenue, Atlantic City. Brick, stucco, 2½ stories, 26x38 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence and Garage**, Margate City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, name withheld. Hollow tile and stucco, 2½ stories, 36x64 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Church**, Willow street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, St. Paul's A. M. E. Church, Rev. I. B. Turner, 304 North Willow street, Trenton, N. J. Stone, brick, 1 story and basement, 46x75 feet, slate roof, hardwood floors, steam heat, electric light, metal lath. Plans in progress.

**Main Building (alts. and add.)**, Trenton, N. J. Architect, A. B. Mills, State Capitol, Trenton, N. J. Owners, State of New Jersey, Dr. M. B. Harris, on premises. Brick, 1 story, 30x60 feet. Plans in progress.

**Factory (alts.) to Apartment**, 113 North Virginia avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Frank W. Miller, 1678 Shipman street, Newark, N. J. Steam heating, electric lighting, hardwood floors, tile work, plumbing. Plans in progress. Will take bids in one week.

**Laundry (add.)**, Third and Taylor streets, Camden, N. J. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owners, Domestic Laundry, Camden, N. J. Reinforced concrete and steel, 3 stories, 43x50 feet, slag roof, concrete floors, electric light, brick work, roof ventilators, rolled steel skylights. Architect will be ready for bids this week.

**Apartment**, Pennsylvania and Atlantic avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, H. Lowenthal, Virginia and Atlantic avenues, Atlantic City. Brick, 3 stories, 75x70 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect will be ready for bids in one week.

**Apartment House**, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, Abe Brilliant, care of architect. Brick, 3 stories, 42x100 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

**Stores and Hotel**, Boardwalk, Atlantic City, N. J. Architect, George E. Keister, 56 West Forty-fifth street, New York City. Owner, Max Kornfeld, 520 Walnut street, Philadelphia. Stone, brick, concrete, steel, limestone and terra cotta, 16 stories, (12) stores on ground floor, and will contain 1,000 rooms, concrete and tile roof, steam heating, electric lighting, tile and marble work, elevators, iron work. Owner will take sub-bids.

**Bungalow**, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Fisher, New Jersey avenue and Beach, Atlantic City. Frame, 1½ stories, 30x50 feet, shingle roof, hardwood floors, electric light, metal lath. Owner will build.

**Stanley Hotel (alts. and add.)**, 128 South Carolina avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owners, Stanley Hotel Co., 124 South Carolina avenue, Atlantic City. Brick, stucco, 5 stories, 94x60 feet, slag roof, hardwood floors, electric light, metal lath, elevators, rolled steel skylights. Architect ready for sub-bids.

**Store and Residence**, Woodbury, N. J. Architect, Albert B. Gill, Law Building, Camden, N. J. Owner, Mr. W. Villecco, Woodbury, N. J. Frame, 2 stories, 20x56 feet, asphalt shingle roof, pine floors, hot water heat, electric light. Owner taking sub-bids.

**Elementary and High School**, Oxford, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton. Owners, Oxford School Board, R. Trexler, Clerk, Oxford, N. J. Brick, steel, fireproof, 2 stories, 95x170 feet, slate roof, hardwood floors (electric work, plumbing and heating reserved), metal lath, tile, marble and terrazzo work, safety treads, hollow tile, roof ventilators, rolled steel skylights, bond, waterproofing, dampproofing, iron stairs, ornamental iron work. Deposit of \$25 required. Architects taking bids due April 21st.

**Fairview School (alts. and add.)**, Camden, N. J. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Board of Education, Elwood C. Bunting, secretary. Brick, cut stone, limestone and steel, 2 stories, (2) wings, 39x65 feet, (1) wing, 114x29 feet, slag roof, maple, pine and cement floors, roof ventilators, iron work, bond, marble work, metal lath, tile work (heating, electric work and plumbing separate bids). Owners taking bids due April 21st.

**Church (alts. and add.)**, Merchantville, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Grace Protestant Episcopal Church, Rev. Harold Morse, Merchantville. Hollow tile and stucco, 1 story, 28x32 feet, 9x12 feet, asbestos roof, hardwood floors, electric light, general interior alterations to present church. Architect taking bids due April 21st.

**Residence and Store**, Merchantville, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, Mrs. A. Partenheimer, Merchantville, N. J. Frame, 1 and 2 stories, 34x21 feet, 16x25 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Apartment**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Hantman, 427 North New Hampshire avenue, Atlantic City. Brick, 3 stories, 33x136 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work. Owner is taking bids.

**School for Colored Youths**, Haddonfield, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Education, Haddonfield, N. J. Brick, 1 story, 40x50 feet, slag roof, concrete and maple floors, vapor heat, electric light, metal lath, rolled steel sash, iron work. Owners taking bids due April 19th.

**Grade School**, Haddonfield, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Education, Haddonfield, N. J. Brick, 2 stories, slag roof, maple and concrete floors, safety treads, roof ventilators, iron stairs and work, tin doors, rolled steel sash, metal lath, hot air or vapor heat, electric light. Owners taking bids due April 19th.

**Bank Building (plumbing and heating)**, Bridgeton, N. J. Architect, Thomas E. Ash, 1220 Locust street, Philadelphia. Owners, Bridgeton National Bank, Bridgeton, N. J. Architect taking bids due April 20th.

**School (add.)**, Cedar Brook, Camden County, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, care of H. Angelow, Berlin, N. J. Brick, 1 story, 2 rooms, composition roof, pine floors (heating, plumbing and electric work reserved). Architect taking bids due April 27th.

**School**, Rosedale, Winslow Township, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, care of H. Angelow, Berlin, N. J. Brick, 1 story, 2 rooms, composition roof, pine floors (heating, plumbing and electric work reserved). Architect taking bids due April 27th.

**Dining Hall**, Morris Plains, N. J. Architects, Department of Institutions and Agencies, Trenton, N. J. Owners, Board of Managers, State Hospital, Morris Plains, N. J. Brick, steel, hollow tile and stucco, 5 stories, 30x60 feet, slate roof, composition and slate roof, dampproofing and waterproofing, iron work, iron stairs, fire doors, rolled steel sash and skylights, metal lath, electric light. Architects taking revised sub-bids and general bids due April 27th.

## New Jersey Contracts Awarded

**Terminal Buildings**, Mechanic street, Camden, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. Steel, brick, concrete, office building, 42x115 feet, concourse, 328 feet long, 105 feet wide, power house, brick, Y. M. C. A. building, offices, restaurant, waiting rooms, driveways platforms, shelters, head houses, etc. Contract awarded structural steel work awarded to New York Ship Building Co., Camden, N. J.

**School Building**, Oaklyn, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, School Board, Oaklyn, N. J. Brick, cut stone, concrete, 1 story, 58x26 feet, slate roof, cement and pine floors, metal lath, marble work, waterproofing, bond, iron work. Contract awarded to: General, George W. Shaner & Son, Palmyra, N. J., \$48,525. Plumbing, J. H. Hutchinson, 1020 Callowhill street, \$1,908. Electric, Reliance Elect. Co., Oaklyn, N. J. Heating, J. P. Muldoon, Audubon, N. J., \$6,900.



**School,** Verga, N. J. Architects, Sanders & Young, 39 South Seventeenth street, Philadelphia. Owners, West Deptford Township School Board, Lewis K. Wilkens, Thorofare, N. J. Contracts awarded: General, George W. Shaner & Son, Palmyra, N. J., \$25,307. Plumbing, J. P. Muldoon, Audubon, N. J., \$525. Electric, Enterprise Elect. Co., 239 South Tenth street, \$650. Heating and ventilating, J. P. Muldoon, Audubon, N. J., \$4,350.

**Stores, Dining Room and Alts. to Building,** South New York avenue, Atlantic City, N. J. Architect, Bertram C. Ireland, Atlantic City, N. J. Owner, Harry Weinmann, Atlantic City, N. J. Brick and steel, 2 stories, 90x38 feet, slag roof, pine floors, hot water heat, electric light, tile work, terra cotta, iron work. Contract awarded to Lam Building Co. 1001 Wood street, Philadelphia.

**Store,** 933-35-37 Broadway, Camden, N. J. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Fuhrman, on premises. Brick, steel and concrete, 2 stories, 60x52 feet, slag roof, maple floors, elevator, iron work, bond, tin-lined doors, hollow metal skylights, steam heat, electric light, metal lath. Contract awarded to Potts Bros. & Cooper, 1016 Cherry street.

**Sales and Service Building,** Seventeenth and Federal streets, Camden, N. J. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Neel Cadillac Co., 142 North Broad street, Philadelphia. Brick, cut stone and steel, 1 story, 200x115 feet, slag roof, cement floors, waterproofing, iron work, bond, tin-clad doors hollow metal sash, metal lath. Contract awarded to Mitchell Brothers, 2125 Race street.

**Residence,** Moorestown, N. J. Architect, Arnold Moses, Temple Building, Camden, N. J. Owner, Mrs. S. B. Lippincott, Moorestown, N. J. Frame, 2½ stories, 36x28 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to Jacob Stiles, Moorestown, N. J.

**Store and Apartment,** Georgia and Atlantic avenues, Atlantic City. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owner, A. Vansant, care of architect. Brick, 3 stories, 40x60 feet, slag roof, hardwood floors, electric lighting. Contract awarded to Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

**Elks' Club House,** Pennsgrove, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Pennsgrove B. P. O. E., I. L. Goldman, chairman of the Building Committee, Pennsgrove, N. J. Brick, cut stone, concrete and steel, 2 stories and basement, 87x49 feet, asbestos shingle roof, composition and pine floors, roof ventilators, sheet metal ceilings, dampproofing, tile work, steam heating, electric light. Contract awarded to William A. Elmore, 14 East Union street, Pennsgrove, N. J.

## Miscellaneous Construction News

**Building (alts. and add.),** 211 East Front street, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Harry Greenberg, 213 East Front street, Wilmington, Del. Brick, 3 stories, 16x35 feet, general alterations. Plans in progress.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

## Proposals

### HALL OF CHEMISTRY

at

West Virginia University  
Morgantown, W. Va.

### NOTICE TO CONTRACTORS

Sealed proposals will be received by the STATE BOARD OF CONTROL at its office in Charleston, West Virginia, until 3.00 P. M., Friday, June 1, 1923, for doing all work and furnishing all material necessary to complete the building described below, according to the plans and specifications prepared therefor by PAUL A. DAVIS, 3rd, & DUNLAP, Architects, Philadelphia, Pa.

The building is to be 305 feet 7 inches x 79 feet 0 inches, four stories, with basement and attic, with extension of one story and basement. Fireproof construction except main roof, which is steel, wood and slate. Exterior of face brick with granite base, Indiana Limestone face first story, and Indiana Limestone trimmings above. Interior brick finished walls. Concrete ceilings. Interior wood finish of oak. Interior partitions brick and tile. Stairs iron. Entrance vestibule marble and plaster. Floors of terrazzo, marble, tile, composition, cement and asphalt. Wrought iron railings. Electric elevator and lift.

Plans and specifications, blank form for bids and blank form of proposal bond will be mailed by the State Board of Control when request for plans is accompanied with check for \$25.00, which amount will be refunded on receipt of bona-fide bid on or before time named above and proposal bond properly filled out and return of plans.

STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, W. Va.

AN embracing and authoritative display of architecture, building and building materials will form a considerable part of the Philadelphia Palace of Progress, a civic-industrial exposition to be held in the Commercial Museum May 14-26, to celebrate the 240th anniversary of the founding of Philadelphia. The exposition will represent the civic, municipal and industrial advancement of Philadelphia.

The exhibit will occupy a large section of the exposition, and has been designated "The Architectural and Building Division."

Mr. D. Knickerbacker Boyd, of the firm of Boyd, Abel and Gugert, Architects, has consented to act as Director of this division. Mr. Boyd has served as secretary and vice-president of the American Institute of Architects, president of its Philadelphia Chapter, and during the war, as chief of the Building Materials Information section of the U. S. Housing Corporation.

Mr. Boyd has secured the co-operation of a number of architects, engineers and builders in arranging the plans for the exhibit. Among those who have accepted are: Victor D. Abel, Walter F. Ballinger, John I. Bright, Irwin T. Catharine, Francis A. Gugert, Philip H. Johnson, Albert Kelsey, Charles E. Oelschla-

ger, Oliver Randolph Parry, Andrew J. Sauer and Clarence E. Wunder.

It is Mr. Boyd's plan to arrange the exhibits of architects, builders and dealers in building materials, equipment and devices in such a way as to form an artistic and comprehensive exhibit representing the advancement of industrial, home and institutional construction in Philadelphia.

One of the most effective features of the architectural and building division will be a complete model home, to be erected by a prominent Philadelphia builder, under the direction of Mr. Boyd. The home will be outfitted by Strawbridge and Clothier, a leading department store of Philadelphia, and it will be occupied during the two weeks of the exhibit by a young married couple, who will act as hosts for the Philadelphia Palace of Progress.

Another feature of interest will be a "Service to House Owners," in which will be displayed charts and figures to guide home owners and prospective home buyers.

The Annual Meeting of the Philadelphia Building Congress will be held after a luncheon at the Hotel Adelphia on Monday, April 23rd, at 12.30 P. M.

Mr. George Wentworth Carr, Chairman of the Speakers' Bureau of the Sesqui-Centennial Exposition Association, has been invited to present the intimate plans of the 1926 Fair in order to secure pledge of co-operation of the various branches of construction that such work will be done efficiently, avoiding interference with normal building requirements.

The Vice President of the New York Building Congress, Mr. Andrew J. Post, of the firm of Post and McCord, contractors, New York City, will be the guest of honor and speaker of this meeting. The New York Congress has over five hundred members, including most of the leading architects, engineers, builders, contractors, material interests and construction labor leaders. Mr. Post will tell what the New York Building Congress has accomplished.

Officers and Directors for the next year are to be elected.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.  
34 S. 17th St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Baker Warehouse. ....Venango and G Sts., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard. ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MORTGAGE FUNDS.

Taylor, G. Herbert. ....Pennsylvania Bldg., Phila.

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Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Baker Warehouse. ....Venango and G Sts., Phila.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
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Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D. Co. ....Otis Bldg., Phila.

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Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
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Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEETROCK (Wall Board)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
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## SLATE

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Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

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## STEEL BASH.

McFarland-Meade Co., 70th and Kingsessing Ave.

## STONE.

John D'Lauro. ....55 E. Mermaid Lane, Phila.

## STRUCTURAL STEEL.

Adelhelm & Phillips. ....1511 Sansom St., Phila.

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Daniel C. Sinclair. ....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....269 S. 11th St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

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Iona Ventilator Co., Inc. ....2821 W. Dauphin St., Phila.

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Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## WALL BOARD, COMPO BOARD

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Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## WATER PAINT.

Southern. Wm. B., N. W. Cor. 12th and Spruce, Phila.

## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

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Cyclone Fence Co. ....18 S. 7th St., Phila.

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Cyclone Fence Co. ....18 S. 7th St., Phila.

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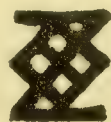
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 17  
April 25, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
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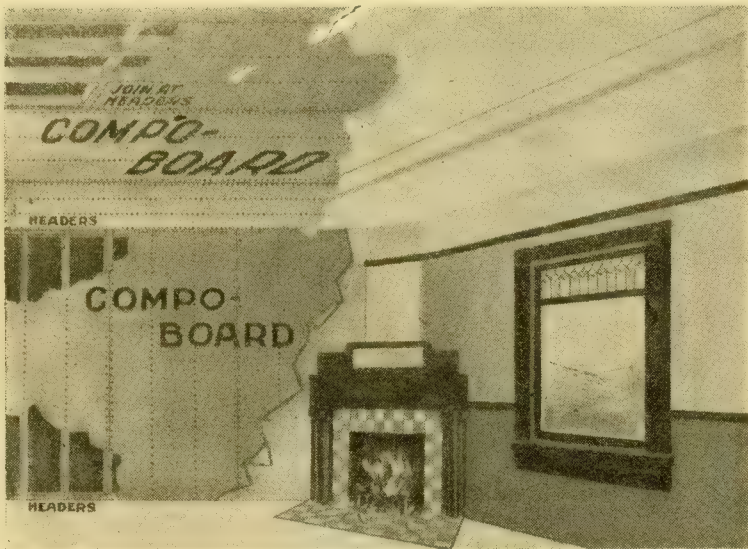
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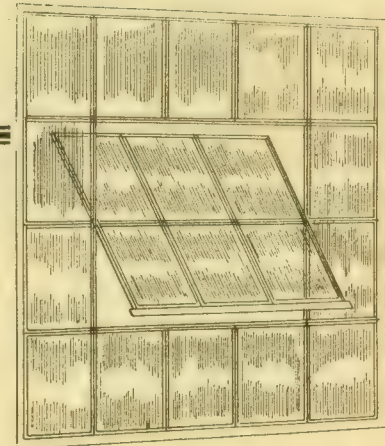
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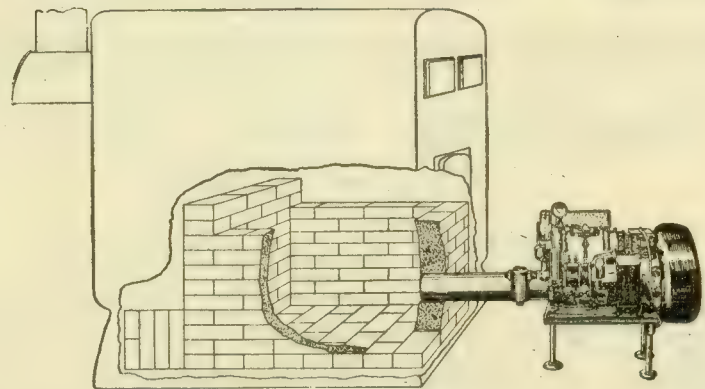
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Bell, Spruce 9707-8

Keystone, Race 1083

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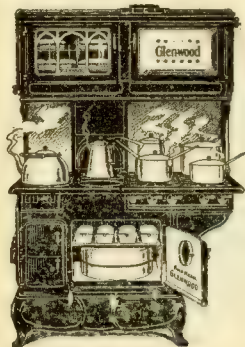
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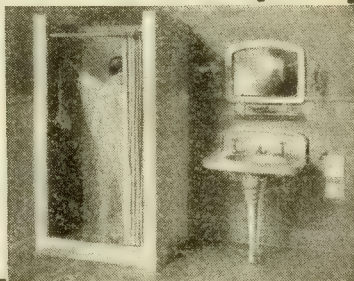
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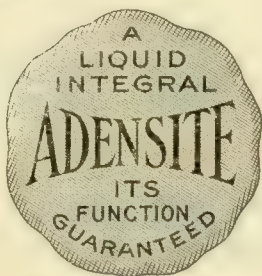
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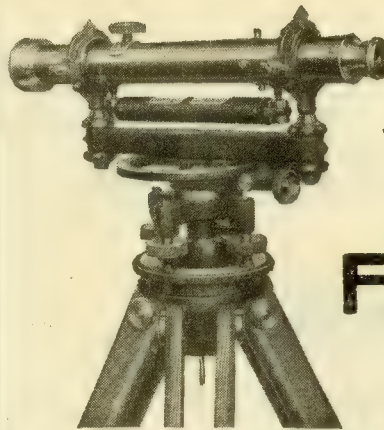
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 17

PHILADELPHIA  
April 25, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

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## As The Editor Sees It



### EQUITABLE CONTRACTS IN SIGHT

Team-Work Securing Justice\*

BY W. F. CREIGHTON

*Foster and Creighton, Nashville, Tenn.*

I WOULD like to say right now that I wish I had the power of Mr. Bent, or Demosthenes, or somebody else, to get the message I have in mind on the subject of contracts home to contractors. I find that, generally speaking, contractors know less about the basic, fundamental rights to which they are entitled under a contract than any other set of men. If I were just able to bring home to you what your rights are under a contract, which of necessity you should know, I would feel that I had accomplished a great deal. I think one reason that this matter is so close to me is that our company has worked under different forms of contract during its history, which, measured by standards of this modern California country, is pretty old. We were organized in 1850. The first period of its history shows that we were engaged in building contracts. In its middle period we were engaged in engineering construction—that is, on roads, locks, dams, bridges, etc., or work that was done entirely under the supervision

\*Address before the Highway Division, Annual Meeting, A. G. C., Los Angeles, Feb. 1, 1923.

and specifications of engineers. In 1914 work of this nature became very scarce and we were forced into building construction. Very shortly after that we ran across the form of contract prepared by the American Institute of Architects, which is undoubtedly the fairest and most equitable instrument we have ever met. Its principal advantage is the *arbitration clause*. Since then we have done several million dollars' worth of work under that form without complaint or argument or any difference of opinion that could not be equitably and amicably settled by conferences with the architect. We have never resorted to arbitration on a single question. Before I left home a subcontractor appealed through us for arbitration to the amount of \$150, and I think that rather than break our record we will pay them that amount out of our own pocket. This form covers everything that might happen in building and clearly sets forth the proper solution.

#### *Federal Highway Contracts*

In 1920 Federal highway work in our State got started and we thought we would go back to engineering work. We went to the Highway Department for specifications, and it was like going out of a lighted room into a dark one. Immediately I wrote to the chief to interpret the specifications on 20 points. He laughed at me, thought it was ridiculous for a contractor to concern himself with such ques-

tions, and we received no satisfactory reply. Well, we put in our first bid—I think it was for \$600,000—10 percent. to protect ourselves against unjust contract provisions and possible unfair inspection. We didn't get the job. Another came and we put in the same thing and didn't get it. Finally we thought we would do as the rest of the fellows did, if we would get a contract—put our necks in the noose and trust the Lord for fair treatment. A small job came up on which the grading had been done; the remaining work consisted of shaping the subgrade and surfacing, which was specified to be an eight-inch, hand placed base, course to be napped, choked and rolled with two-and-a-half inches of crushed stone and two gallons of asphalt to the square yard, applied in the usual manner. It was about ten miles long and cost about \$150,000. We thought we could not go broke on this size contract without adding the 10 percent. We secured the contract and immediately trouble began. The first thing they did to us was to give us a typewritten copy of an addenda to specifications, which required choking the base space in a very expensive way. I first thought of complaining about that, but after carefully reading the printed specifications on which our contract was based, by a stretch of the imagination I could see where they could make us do this, so I didn't complain. We always have followed the idea of living up to the specifications literally,

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and making the other fellow do the same. The next question that arose was the thickness of the base, which was specified to be eight inches thick, no more nor less. They required us to use ten-inch wooden blocks and build the base up to this thickness. The work was carefully inspected, and we were required to make the base full ten inches thick, which they thought would roll down to eight. It did not. After a mile had been completed I carefully measured the thickness and found it to be nine and three-fourths to ten inches, or practically two inches more than the specifications. I protested to the chief engineer, but received no satisfaction except orders to proceed.

This difference of two inches amounts to about \$15,000 under our unit prices; and, since I cannot arbitrate or sue the State, we have no resource except to have a bill introduced in the legislature to get our money, unless the Highway Commission will voluntarily treat us fairly. Under the contract we have no right of redress.

The next question was ignorant inspection. I do not attempt to tell you men about this, which I am sure you have daily to contend with on your own work. When complaints were made to the chief engineer, naturally for the morale of his organization he would defend them and would say that he knew what he intended when he wrote the specifications; and our reply that we did not know what was in his mind, but only what was written, on which our money was placed did not interest him.

#### *Injustice Resented*

There is another serious thing about this unjust contract—it creates a feeling of resentment on the part of the superintendent and foreman; they feel that they are unjustly getting the hot end of every decision; and, since you are holding them responsible for profits, they do not know what to do. They realize that they cannot get protection in a businesslike and honest way, and everyone knows you have to watch a certain class of superintendents to prevent them from getting even in the "wrong way." It creates a tendency to slight the work in some way to get even. When that is done the contractor suffers. In any event it does not instill a spirit of co-operation on the part of the contractor or create a pride in the completed work. There is a serious point, and it is the reason that contractors up to a few years ago were thought to be crooks. That form of contract in which you have no right has a tendency to make crooks of us. It is human nature to get even—if not fairly, then in another way. That is one reason I am so strong for a fair contract; as it enables one to sit down and look the engineer squarely in the eye and say: "I am your equal; let us dis-

cuss the question amicably and not have to beg for what we are entitled to." When I first graduated from the university in 1904, every time engineers got together, the relation between the engineer and the contractor was discussed. It was agreed by them that the engineer was the arbitrator; that he stood as a judge between the owner and the contractor; that he didn't lean towards either side. That is not the case now nor ever was. He cannot be the arbitrator. By the very virtue of his employment, he is the agent of the owner. If they will allow us to pay him half his salary we are willing for him to be sole arbitrator. But so long as one party to the contract pays any man—whether it be the United States Government, the State, city or a private corporation—he cannot be an unbiased arbitrator, but is the agent of the owner; and for the agent of one party to a contract to be the sole arbitrator is fundamentally wrong.

In Nashville we have an association of engineers, contractors and architects, among which are several prominent men. When the contractors' time came to present a paper, I was the goat and used the subject: "The Engineer from the Contractor's View Point;" and in the paper I talked to them very plainly. I was able to give them specific instances and call attention to particular cases that they could not deny. At the conclusion Hunter McDonald, past President of the American Society of Civil Engineers and Chief Engineer of the N. C. & St. L. Railway—incidentally an advocate of the arbitration clause—said: "Gentlemen, this is a serious indictment; it is up to us to clear our skirts."

#### *Improvement In Prospect*

A joint committee was formed to report on a fair contract provision. This committee recommended seven points. It was unanimously approved and referred through the American Council to a joint committee composed of the A. G. C., A. S. C. E., A. S. M. E., A. I. A., and others. Similar expressions were forwarded to the joint committee from all the various societies throughout the country and other places; and you would be astonished, if you do not already know, how nearly these points were the same—even the wording, in many cases, was the same. Another feature of the result of that conference was that the A. G. C. went before the Tennessee Highway Commission and put before that body several specific criticisms of their specifications, which they agreed to; but we have not been advised that these specifications have been rewritten yet.

From this point work on the question of an equitable contract has been done by our A. G. C. committees and published

(Continued on page 271)

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CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Building (alts. and add.),** Thirty-third and Powelton avenue, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, American Oncologic Hospital, on premises. Brick, cut stone and steel, 3 stories, 28x28 feet, slag roof, maple and cement floors, hollow tile, electric work, heating extension, metal lath, tile work, bond, terra cotta. Architects taking bids due April 30th.

**Store (alts.),** 35 South Fifty-second street, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Benjamin D. Beerwald, on premises. New front, rearranging interior. Plans in progress.

**Apartment House (alts.),** 1603 Poplar street, Philadelphia. Architect, Louis Valentine Scherr, 1036 Drexel Building, Philadelphia. Owner, Harry Goldberg, care of architect. Brick, steel and cut stone, slag roof, hot water heating, electric light, plumbing, tile and marble work, plastering, carpentry, mill work, hardware, iron work. Architect taking bids due April 28th.

**Building,** 4919-21 North Broad street, Philadelphia. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. Brick, concrete and steel, 1 story, 16x38 feet, built-up roof, pine floors, metal ceilings, terra cotta, steam heating, electric lighting, metal lath. Owners taking bids due April 28th.

**Building (alts.),** 143-45 North Front street, Philadelphia. Engineer, Charles H. Ingle, Twenty-third and Green streets, Philadelphia. Owners, Woodward & Dickerson, 14 South Delaware avenue. Brick work, cement and pine floors, plastering, painting, glazing, carpentry, mill work. Engineer taking bids due as soon as possible.

**Base for Statue of John Wanamaker,** Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, name withheld. Cut stone, granite and cement, bronze lettering. Architect taking bids.

**Store and Apartment and Residences (12),** Second and Wyoming avenue. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. J. Reiser, care of architect. Brick, 2 stories, 20x45 feet, (12) 16x45 feet, slag roof, pine floors, hot water heat, electric light, tile work, hollow metal skylights and bay win-

dows, flush bulks, garages in basements. Plans completed. Owner is ready for sub-bids.

**Apartments (6), Stores (3),** Osage avenue, between Forty-sixth and Forty-seventh streets. Architects, J. L. Stetler and H. M. Deysher, 1580 North Fifty-second street, Philadelphia. Owner, B. F. Goldman, 5735 Hazel avenue, Philadelphia. Brick, 3 stories, 37x72 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Apartment House,** location withheld. Architects and engineer, J. L. Stetler and M. H. Deysher, 1580 North Fifty-second street. Owner, name withheld. Brick, 4 stories, 38x150 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile and marble work, will contain 26 apartments. Plans in progress.

**Commercial Building,** Southeast Corner Twenty-third and Walnut streets, Philadelphia. Architects and engineers, J. L. Stetler and M. H. Deysher, 1580 North Fifty-second street. Owner, Louis Lifter, 1580 North Fifty-second street, Philadelphia. Work contemplated. Too early for details.

**Club House,** location withheld. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, University Club, 1510 Walnut street, Philadelphia. Stone, brick, steel, terra cotta and limestone, 23 stories, 40x100 feet. Sketches drawn.

**Stores (2) and Apartment Building,** 251 South Sixteenth street. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Miss Sabal, care of architect. Brick, 4 stories, 35x140 feet. Plans in progress.

**Residence (add.) and Garage,** 6419 Drexel road, Overbrook. Architects, De Armond, Ashmead and Bickley, Franklin Trust Building. Owner, Ella S. Lang, on premises. Hollow tile and stucco, 2½ stories, 16x40 feet, shingle roof, hardwood and cement floors, electric lighting, steam heating. Plans in progress. Architects will be ready for sub-bids in ten days.

**Garage (add.),** 875-77 North Forty-fifth street, Philadelphia. Architects, Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia. Owner, Thomas Aiken, on premises. Brick and steel, 1 story, slag roof, cement floors, heating and lighting extensions, rolled

steel sash and skylights. Architect taking sub-bids. Owner will be ready for bids in one week.

**Residences (45),** Sixty-fifth and Trinity Place, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owners, Solomon Brothers, 901 Walnut street, Philadelphia. Brick, 2 stories, 16x42 feet, slag, tile and tin roof, hardwood floors, hot water heating, electric lighting. Owners are ready for sub-bids.

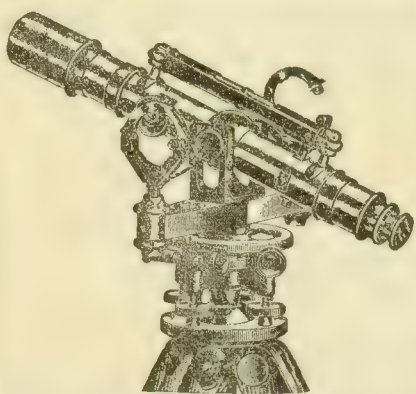
**Sales and Service Building,** Sixty-third and Woodbine avenue, Philadelphia. Architect, Francis P. Canavan, 7032 Greenway avenue, Philadelphia. Owner, A. Liebovitz, 4045 Baltimore Ave., Phila. Brick, steel and terra cotta, 63x100 feet, 16 feet high, slag roof, concrete floors, roof ventilators, central heating, electric lighting, hollow metal sash and skylights, plate glass. Owner will build and is ready for sub-bids.

**Residences and Garages (22),** Dyre and Large streets, \$165,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Philip Robin, 3334 West Harold street, Philadelphia. Brick, 2 stories, 18x38 feet, garages, 1 story, 10x18 feet, slag roof, hardwood and cement floors, electric lighting, hot water heating, tile work. Owner will build.

**Basement Store alt.,** Northeast Corner B and Eleanor streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Samuel Jamison, on premises. Plaster board, wood floors, electric lighting, I beams, plate glass, general alterations, size 16½x40 feet. Owner will build.

**Residences (2), Store and Dwelling,** Eightieth and Lyons avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Henry Swartz, 5026 Kingsessing avenue, Philadelphia. Brick, 2 stories, 16x35 feet, and 2 stories, 18x30 feet, slag roof, pine floors, hot air heating, electric lighting. Plans completed. Owner will take sub-bids.

**Residences (27),** Sixty-seventh and Ogontz avenues, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank D. Williams, Sixty-sixth and Ogontz avenues, Philadelphia. Brick, 2 stories, 18x32 feet, slag, slate and tin roof, hot water heating, electric lighting, tile work, ce-



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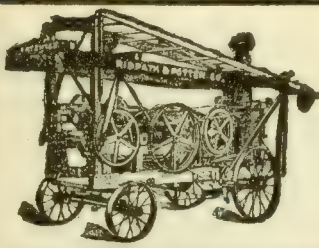
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**Apartments (alts.),** 122 South Fifty-first street, Philadelphia. Architect, Paul Livingston Boyd, 6943 Limekin Pike, Philadelphia. Owner, Mrs. E. Kafitz, 5415 Chancellor street, Philadelphia. Brick, 2 stories, reinforced concrete work, enclosed porches, stair work, plumbing fixtures (heating electric work, tile work, plumbing and painting separate bids). Owner will take bids.

**Garage,** Fifty-first and Sansom streets, Philadelphia. Architect, Paul Livingston Boyd, 6943 Limekiln Pike, Philadelphia. Owner, Mrs. E. Kafitz, 5415 Chancellor street, Philadelphia. Brick, 1 story, 12½x18½ feet, slag roof, cement floors. Owner will take bids.

**Apartments (8), Garages (6),** 5402 Chester avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Sorkin & Schestack, care of architect. Brick, 3 stories, 16x31 feet, slag roof, pine and cement floors, metal ceilings, bond, plate glass, tile work, hot water heating, electric lighting, metal lath. Plans in progress. Architect will be ready for bids in two weeks.

**Store and Apartments (alts. and add.),** 5223 Chester avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, H. Kurtzman, 5014 Market street, Philadelphia. Brick, 3 stories, 16½x30 feet, slag roof, pine floors, metal ceilings, flush bulks, store fixtures, bond, tile and marble work, hot water heat, electric light. Plans in progress. Ready for bids in one week.

**Store (1) and Apartments (8),** Thirty-fourth and Spring Garden streets. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 18½x122 feet, slag roof, pine and hardwood floors, hot water heat, electric light, metal lath, tile work, store fixtures, bond, metal bulks, plate glass. Architect taking bids due April 28th.

**Residences,** Gates street, Roxboro, Philadelphia. Architect, private plans. Owner, William C. Wright, 3910 Manayunk avenue, Philadelphia. Stone, 2½ stories, 32x45 feet, slate roof, oak and pine floors, hot water heat, electric light. Owner taking bids due as soon as possible.

**Store and Apartments (alts.),** 1533 West Girard avenue, Philadelphia. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, Mrs. William L. D'Olier, care of architect. Brick work, vapor heat, electric light, tile and marble work, slag roof, hardwood and cement floors. Architect taking bids due as soon as possible.

**Schools (alts.),** various locations, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Forced draft

apparatus, sanitary improvements, heating, plumbing, painting, electrical work and lighting, stock closets, new boilers, general repairs, etc. Owners taking bids due May 3rd at noon.

**Junior High School,** Memphis, Ann and Tulip streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. General construction, plumbing, heating, ventilating, electric work, cabinet work. Owners taking bids due May 3rd at noon.

**Garage and Laundry,** Chestnut Hill, Philadelphia. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Samuel P. Rotan, Liberty Building, Philadelphia. Brick, steel, reinforced concrete and stucco, 1 and 2 stories, 28x28 feet, shingle roof, cement and pine floors, hot water heating, electric light, metal lath, hollow metal sash, bond, iron work. Architects taking bids due April 26th.

**Supplies,** Purchasing Agent, Philadelphia. Owners, City of Philadelphia, Thomas F. Armstrong, P. A., 312 City Hall, Philadelphia. Fire hydrants parts, furnishing and hanging awnings, roofing tin, lumber, paint. Owners taking bids due April 27th at noon. Bids opened Room 329.

**Residence (alts.),** 510 South Broad street, Philadelphia. Architect, John P. B. Sinkler, City Architect, 1211 Chestnut street. Owners, Department of Public Works, Bureau of City Property. Electric lighting fixtures and alterations to afford fire protection. Owners taking bids due May 3rd, 216 City Hall. Deposit, \$5.00.

**Stores (6),** Thirty-fourth and Hamilton streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, 1 story, 16x18½ feet, slag roof, pine floors, gas heating, electric light, hollow metal skylights, store fixtures, bond, metal bulks. Architect taking bids due April 28th.

**Residence (alt. and add.),** 2110 North Hancock street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, John Borndran, on premises. General alterations and addition (heating, electric work and plumbing reserved). Architect taking bids.

**Church,** Twenty-eighth and Lehigh avenue, Philadelphia. Architects, associate, J. Fletcher Street and H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, Northwestern Memorial Church, care of architects. Stone, 85x80 feet, slate roof, maple floors, steam heating, electric lighting, stained and leaded glass. Architects taking bids due May 3rd.

**Garage,** 1224 North Eighteenth street, Philadelphia. Owner, Salvator J. Gritti, 817 North Sixteenth street, Philadelphia. Owner,

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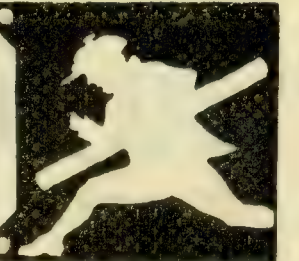
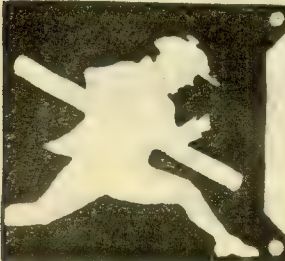
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Dr. Thomas F. Dunn, on premises. Brick, 1 story, 25x18 feet, slag roof, cement floors, probably gas heating, electric lighting, sliding doors. Bids due as soon as possible.

**Residence and Garage**, Midvale and Wissahickon avenue. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, George Plumly, Pelham Court Hotel, Germantown. Stone, 2½-1½ stories, 41x39 and 20x16 feet, slate roof, oak and pine floors, electric light, metal lath, tile and iron work (heating and plumbing reserved). Architect taking bids due April 27th.

**Factory**, Stenton avenue, between Wyoming and Loudon streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Apex Machine Co., 2801 Susquehanna avenue, Philadelphia. Brick, steel, reinforced concrete, 2 stories, 71x163 feet, slag roof, cement, maple, composition, wood block floors, safety treads, iron work, floor hardener, bond, fire and kalamein doors, rolled steel sash, metal lath (sprinklers, heating, electric work and plumbing separate bids). Architects taking bids due April 26th.

**Garage**, 4538-40-42 Merion avenue, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, Mr. Powers, care of architect. Brick, steel and concrete, 1 story, 50x114 feet, slag roof, cement floors, steam heat, electric light, hollow metal skylights, structural steel work. Owner is taking sub-bids.

**Residences (52)**, Cresheim road, North of Carpenter street, Germantown. Architect, private plans. Owners, Tourison & Tourison, 1310 Arch street, Philadelphia. Stone, frame, stucco and brick, 2½ stories, 58x25 feet, slate and slag roof, oak and pine floors, hot water heat, electric light, iron work. Owners are taking sub-bids.

**Garage**, Northwest Corner Oregon avenue and Rosewood street, Philadelphia, \$10,000. Architect, private plans. Owners, Dougherty & Miller, 2609 South Fifteenth street, Philadelphia. Brick, 1 story, 100x96 feet, slag roof, concrete floors, electric lighting. Owners will build.

**Residences (28)**, North side Highland avenue, Anderson to Ardleigh streets, Philadelphia, \$282,000. Owner, Franklin C. Scheid, Broad and McKean streets, Philadelphia. Brick, 2 stories, 0x48 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (10)**, 5908-26 York road, Philadelphia, \$56,000. Architect, John E. Sindoni, 1929 South Tenth street, Philadelphia. Owners, Anastasi Brothers, 1929 South Tenth street, Philadelphia. Brick, 3 stories, 16x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**Residences (30)**, Twentieth and Godfrey avenue, Philadelphia, \$137,000. **Residences and Garages (4)**, Limekiln Pike, Godfrey avenue and Ogontz avenue, Philadelphia, \$25,500.

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Owner, Max Chipin, 1024 Rockland street, Philadelphia. Brick, (33) 2 stories, (1) 3 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (36)**, Montana and Chew streets, Philadelphia, \$6,000 each. Architect, private plans. Owner, Earl K. Davis, Chew and Phil-Ellena streets, Philadelphia. Brick, 2 stories, 20x28 feet, slag roof, hardwood floors, tile work, hot water heat, electric light. Owner will build.

**Residences (2)**, East side Jackson street, North of Bridge street, \$4,500. Architect, private plans. Owner, E. M. Carlson, 3224 Higbee street, Philadelphia. Brick, 2 stories, 15½x48 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (3)**, 1024-26-28 Herbert street, Philadelphia, \$5,500 each. Architect, private plans. Owner, George Rimer, 4842 Hawthorne street, Philadelphia. Brick, 2 stories, 15x39 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, 7322 Claridge street, Philadelphia, \$5,000. Architect, private plans. Owner, Henry Kuhn, 7320 Claridge street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

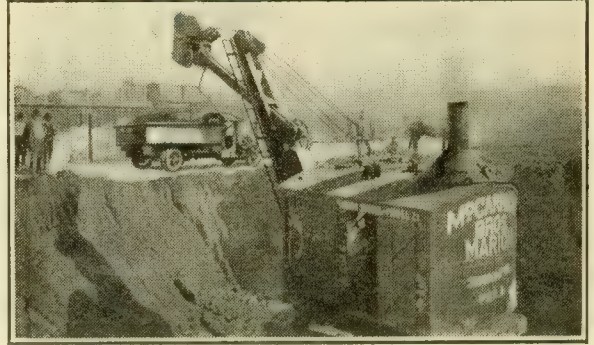
**Residences (2)**, West side Lawndale street, South of St. Vincent, \$5,000 each. Architect, private plans. Owner, Henry Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (6)**, Sixty-fourth and Dickens avenue, Philadelphia, \$27,500. Architect, private plans. Owner, William D. Wilson, Jr., 127 South Fifty-first street, Philadelphia. Brick, 2 stories, 16x38 feet, electric lighting, hot water heating, tile work, hardwood floors. Owner will build.

**Residences (32)**, East side and West side Gillespie, North of Tyson, \$4,500 each. Architect, private plans. Owner, Walter G. Costello, 7002 Hegerman street, Philadelphia. Brick, 2 stories, 16x4½ feet, hot water heat, electric light. Owner will build.

**Garage**, North side Cherry street, East of Fifty-fifth street, \$9,000. Architect, private plans. Owner, C. A. Conan, 133 North Vogdes street, Philadelphia. Brick, 1 story, 16x80 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (15)**, North side Diamond street, from Fifty-third street to Georges Lane, Philadelphia, \$117,500. Owner, H. Martin Maloney, Northeast Corner Fifty-fourth and Diamond streets, Philadelphia. Brick, 2 stories,



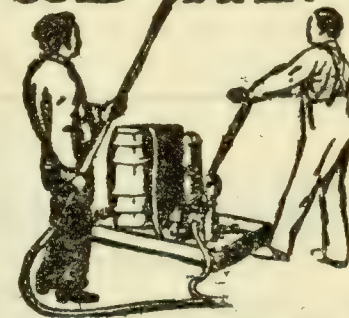
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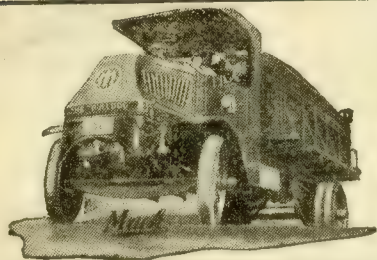
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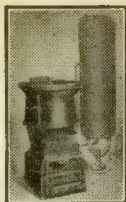
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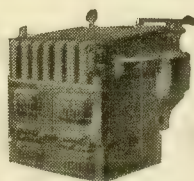
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(13) 20x34 feet, and (2) 20x40 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Garage**, 3533 North Eighth street, Philadelphia, \$3,000. Architect, private plans. Owner, Walt Smith, 3518 North Eighth street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, central heating, electric lighting. Owner will build.

**Storage Shed**, East side Beach street, North of Green, \$2,000. Owners, P. R. T. Co., 810 Dauphin street, Philadelphia. Iron, 1 story, 14x56 feet. Owners will build.

**Residences (4)**, 1317-19-21 Levick street, Philadelphia, \$4,500 each. Architect, private plans. Owner, Chris Fischer, 6400 Oxford Pike, Philadelphia. Brick and frame, 2 stories, 16x4 feet, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (13)**, North side of Penn street, East of Magnolia. Architect, private plans. Owner, T. J. Kiely, 312 Seymour street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residence**, North side Princeton avenue, West of Loretta, \$4,400. Architect, private plans. Owner, E. H. Christian, 4321 Cloud street, Philadelphia. Frame, 2 stories, 30x40 feet, hardwood floors, electric lighting. Owner will build.

**Residences (36)**, Hutchinson street and Lindley avenue, \$4,000 each. Owner, Matthew Dougherty, Franklin and Loudon streets,

Philadelphia. Brick, 2 stories, 14x26 feet, 11x11 feet, hot water heat, electric light. Owner will build.

**Recreation Building**, Berks and Blair streets, Philadelphia. Architect, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Lowest bidders: Bowden Const. Co., 1935 Chestnut street, Philadelphia: Item A, \$89,700; B, \$84,900. J. B. Kelly, 2313 Walnut street, Philadelphia: Item A, \$89,765; B, \$85,242. Plumbing, Philadelphia Steam Heating Co., 3318 Lancaster avenue, \$6,158. Heating, Charles F. McCarthy, 316 West Woodlawn avenue, \$4,978. Electric, Electro Const. Co., Commercial Trust Building, \$3,596.

**Residences (54)**, 2901 to 2955 South Syden-

ham street, and 2900 to 2950 South Fifteenth street, Philadelphia, \$184,000. Owner, Fred S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, (50) 15x39 feet, (4) 16x38 feet, hot water heat, electric lighting. Owner will build.

**Residences (2)**, South side Unruh street, West of Oakley, \$10,000. Architect, private plans. Owner, William G. Isles, 806 Levick street, Philadelphia. Frame, 2 stories, 14x46 feet, oak floors, hot water heat, electric light. Owner will build.

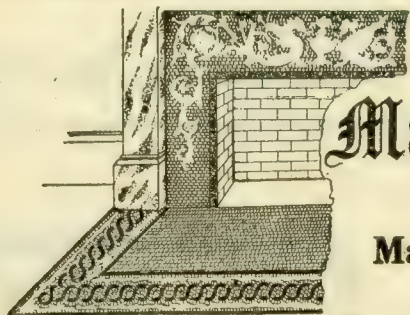
**Residence**, 4476 Edgemont street, Philadelphia, \$4,500. Architect, private plans. Owner, I. Marcinick, 4474 Edgemont street, Philadelphia. Brick, 2 stories, 18x38 feet, slag roof, hardwood floors, steam heat, electric light. Owner will build.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Home Building**, Broad and Wood streets, Philadelphia. Architects, Andrew J. Sauer & Co., Denekla Building, Philadelphia. Owners, Philadelphia Lodge No. 2, B. P. O. E., Philadelphia. Brick, cut stone, reinforced concrete, granite and limestone, 14 stories, 198x164 feet, Spanish tile and composition

roof, cement, maple, oak and pine floors, elevators, metal weather strips, waterproofing, terra cotta, iron work and stairs, bond, tin clad and kalamein doors, rolled steel sash, tile, marble and terrazzo, metal lath, steam



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heating, electric lighting. Contract awarded to P. H. Kelly Const. Co., 1713 Sansom street.

**Factory Building**, 1401-03-05 North Third street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, B. Bernheim & Sons, on premises. Brick, cut stone, steel and concrete, 4 stories and basement, 60x60 feet, slag roof, composition and maple floors, waterproofing, iron work, bond, fire doors, hollow metal skylights, rolled steel sash, tile and marble work (heating, electric lighting and elevators reserved). Contract awarded to Nicholas Nardy & Co., 1713 Sansom street.

**Store and Apartments**, 5535 Germantown avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Charles Vant, on premises. Brick, 3 stories, 14x70 feet, slag roof, hardwood and pine floors, metal ceilings, metal bulks, bond, store fixtures, hollow metal skylights, tile and marble work, metal lath, hot water heating, electric lighting. Contract awarded to Dickinson Const. Co., 1118 Dickinson street.

**Store and Factory (alts. and add.)**, Ninth and Kimball streets, \$35,600. Architect, M. A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Kurtz Brothers, 1021 South Ninth street, Philadelphia. Brick, concrete and steel, 3 stories, 52x38 feet, slag roof, cement and maple floors, roof ventilators, terra cotta, bond, rolled steel sash and skylights (heating, electric work, plumbing and elevators reserved). Contract awarded to N. Scurei, 2640 South Twelfth street, Philadelphia.

**Warehouse and Dye House**, Unity and Elizabeth streets, Philadelphia. Architect, private plans. Owners, P. J. Ederer Thread Co., on premises. Brick, slow burning, 3 stories, 50x40 feet, and 1 story, 40x60 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Residence**, Northeast Corner Fifty-ninth and Woodbine avenue, Philadelphia, \$26,000. Architect, private plans. Owner, John I. Coulbourn, Sixty-sixth and Sherwood streets, Philadelphia. Stone, 2 stories, 28x56 feet, slate roof, hardwood floors, tile work, central heat, electric light. Contract awarded to Milton W. Young, 2037 North Sixty-third street.

**Residence and Store (add.)**, 500-02 South street, \$15,000. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, William Rosoff, 502 South street, Philadelphia. Brick, 3 stories, 27x60 feet, slag roof, oak and pine floors, hot water heat, electric light.

Contract awarded to H. M. Shandles, 1211 Chestnut street.

**Store and Apartments (alts. and add.)**, 1527 Fairmount avenue. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Mone Isaacs, The Marlyn, Philadelphia. Brick, 1 story, 22x31 feet, slag roof, vapor heating, electric lighting, pine and cement floors, hollow metal skylights. Contract awarded to E. P. Hatch, 23 South Sixteenth street, Philadelphia.

**Office and Waiting Room (alts. and add.)**, 2425-2435 Germantown avenue. Architect, Michael Capobianco, 723 Walnut street, Philadelphia. Owner, W. A. Crane, on premises. Hot water heat, electric lighting, plumbing, slag roof, pine floors, plastering. Contract awarded to Frank Dimasi, Ninth street near McKean street.

**Residence and Garage**, South side Penn street, West of Fox, \$14,900. Architect, private plans. Owner, Walter Cuttle, 226 Mt. Pleasant avenue, Philadelphia. Brick, 2 stories, 26x32 feet, garage, 1 story, 17x20 feet, slag roof, hardwood and cement floors, hot water heat, electric light. Contract awarded to S. S. Billingsley, 1230 East Cheltenham avenue, Philadelphia.

**Residence**, South side Burholme avenue, East of Borbeck, \$4,850. Architect, private plans. Owner, Albert Griffin, Pine Road, Fox Chase, Philadelphia. Frame, 2 stories, 28x24 feet, hardwood floors, electric work. Contract awarded to Joseph Ashby, 7920 Oxford avenue, Philadelphia.

**Residences (2)**, South side Rhawn street, East of Large, \$4,650 each. Architect, private plans. Owners, S. W. & C. R. Gachring, 1213 Columbia avenue, Philadelphia. Frame, 2 stories, 15x38 feet, hardwood floors, electric light. Contract awarded to William T. Garrison, 1338 North Tenth street.

**Residence and Store (add.)**, 213 Catharine street, \$2,500. Architect, private plans. Owner, T. Rogalski, on premises. Brick, two-story add., 14x26 feet, pine floors, slag roof. Contract awarded to Stefan Pietrykowski, 3074 Aramingo avenue.

**Residences (3)**, 26-28-30 West Evergreen avenue, Philadelphia, \$19,000 total. Owner, George Grebe, 18 West Evergreen avenue, Philadelphia. Brick, (1) 3 stories, 15x38 feet, (2) 2 stories, 14x26 feet, 11x11 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Lockhart & Simon, 1524 Chestnut street.

**Garage**, West side Fourth street, North of Luray street, \$3,500. Owner, C. D. Feiber,

1105 Harrison street, Philadelphia. Brick, 1 story, 18x98 feet, slag roof, cement floors. Contract awarded to Edward B. Miller, 3935 North Marshall street.

**Residences (3)**, Winston Road, North of Benezet street, \$45,000. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Dr. George Woodward, Chestnut Hill, Philadelphia. Stone, 3 stories, (1) 33x40 feet, and (2) 27x40 feet, hot water heat, electric light, hardwood floors, tile work. Contract awarded to Ralph C. Borthwick, 6511 Woodstock street.

**Fence Wall**, 816 North Seventh street, Philadelphia, \$5,000. Owners, Joy Nursery Garden, on premises. Brick. Contract awarded to R. C. Ballinger & Co., 925 Walnut street.

**Workshop**, 1445 South Eighth street, Philadelphia, \$7,000. Architect, private plans. Owner, Arthur Tofan, 1447 South Eighth street, Philadelphia. Brick, 3 stories, 19x70 feet, slag roof, pine floors, electric work. Contract awarded to F. Palombo, 525 Christian street, Philadelphia.

**Building (fire repairs)**, 905 Arch street, Philadelphia, \$19,000. Architect, private plans. Owners, Assets Producing Co., Chicago, Ill. General restoration, fire damage. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Garage**, East side Eighth street, South of Schiller street, \$5,000. Architect, private plans. Owner, Wilbur F. Chapman, 1805 West Venango street, Philadelphia. Brick, 1 story, 34x83 feet, slag roof, cement floors. Contract awarded to Joseph Reed, 432 Purdy street, Philadelphia.

**Residence (add.)**, 5603 Vine street, Philadelphia, \$2,000. Architect, private plans. Owner, Jacob Kling, on premises. Brick, 1 story add., 20x46 feet, slag roof, pine floors. Contract awarded to A. V. Gilchrist, Drexel Building, Philadelphia.

**Building (add.)**, Northeast Corner Fifty-fifth and Kingsessing avenue, Philadelphia, \$2,000. Architect, private plans. Owner, M. Weiss, 1215 Market street, Philadelphia. Brick, 1 story, 16x8 feet, slag roof, electric work. Contract awarded to Gaser & Bragin, 3861 Folsom street, Philadelphia.

**Shop**, 4321 North Eighteenth street, Philadelphia, \$7,000. Architect, private plans. Owner, Carl Link, 4028 Germantown avenue, Philadelphia. Brick, 1 story, 30x85 feet, slag roof, electric lighting. Contract awarded to Frank Randinski, 4329 North Sixteenth street.

**Garage**, 3053-55 North Franklin street, Philadelphia, \$5,000. Architect, private plans.

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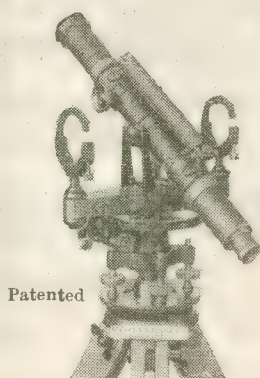
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Owner, O. K. Jones, 3051 North Franklin street, Philadelphia. Brick, 1 story, 32x66 feet, slag roof, cement floors, electric lighting. Contract awarded to Goldberg & De Mari, 2446 South Ninth street.

**Club House**, North side Emerson street, East of D street, \$3,685. Owners, Elberson Tennis Club, on premises. Frame, 1 story, 17x35 feet, electric light. Contract awarded to Harold Stout, Cheltenham, Pa.

**Building (add.)**, 1927-29 Moravian street, \$3,000. Owner, Mrs. Florence Hood Latta, 1917 Walnut street, Philadelphia. Brick, 2 stories, 29x35 feet, slag roof, electric lighting. Contract awarded to Armstrong & Latta, Land Title Building.

**Residence and Store (alts.)**, Southeast Corner Twenty-second and Chestnut streets, \$3,000. Architect, private plans. Owner, M. F. Doyle, 1904 Rittenhouse street, Philadelphia. General alterations. Contract awarded to E. M. Canny, 6021 Sansom street, Philadelphia.

**Residence and Store (add.)**, 2351 North Thirty-second street, Philadelphia, \$3,000. Architect, private plans. Owner, D. Cohen, on premises. Brick, 2 stories, 10x11 feet, slag roof, pine floors, electric work. Contract awarded to Charles Schlachman, 2334 North Thirtieth street, Philadelphia.

**Fire Tower Addition**, 3525 North Second street, Philadelphia, \$3,000. Owners, Betzold Brothers, on premises. Brick, 3 stories, 7½x6 feet. Contract awarded to Knox-Landers Co., 1132 Vine street, Philadelphia.

**Residence and Store (alts.)**, Northwest Corner Eighth and Catharine streets. Architect, private plans. Owner, G. Russo, Southwest Corner Eighth and Christian streets, Philadelphia. General alterations. Contract awarded to August Postine, 1333 Wharton street.

**Storage**, 1224 Belmont avenue, Philadelphia, \$3,000. Architect, private plans. Owners, Wilson Magazine Co., 1224 Belmont avenue, Philadelphia. Brick, 2 stories, 20x29 feet, pine floors, slag roof. Contract awarded to Leonard Wall, 651 North Frazier street.

**Residence (repairs)**, 5526 Blakemore street, \$3,000. Architect, private plans. Owner, George Justice, on premises. General fire repairs. Contract awarded to I. A. Dunkelberger, 71 East Herman street.

**Factory (add.)**, Northeast Corner Thirtieth and Thompson streets, \$2,500. Owners, National Umbrella Co., on premises. Brick, 1 story, 15x13 feet, 8x45 feet and 15x29 feet. Contract awarded to George W. Whiteman, 413 East Penn street, Philadelphia.

**Residence and Store (add.)**, 1638 North Second street, \$2,000. Owner, Samuel Rubin, 1743 North Thirty-first street, Philadelphia. Brick, 2 stories, 11x14 feet. Contract awarded to Cecil Hodgins, 4610 D street, Philadelphia.

**Store and Manufacturing Building (alts.)**, 3623 Longshore street, \$5,000. Architect, private plans. Owners, Rosenau Brothers, Twen-

ty-fifth and Westmoreland streets, Philadelphia. New bulk windows, carpentry, millwork, painting, plastering. Contract awarded to George H. Evans, Inc., 105 North Thirtieth street, Philadelphia.

**Residence**, South side Vista street, East of Duncan Road, \$5,000. Architect, private plans. Owner, Mrs. C. Class, 7326 Lawndale avenue, Philadelphia. Frame, 2 stories, 24x40 feet, hot water heat, electric light, hardwood floors. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

**Residences (add.)**, 5037 Florence avenue, Philadelphia, \$5,000. Architect, private plans. Owner, John Whitley, on premises. Brick, 3 stories, 16x14 feet, 1 story, 16x22 feet, slag roof. Contract awarded to H. B. Nichols, Forty-fifth and Osage avenue, Philadelphia.

**Garage**, 1507 North Stillman street, Philadelphia, \$2,500. Owner, O. H. Knabe, on premises. Brick, 1 story, 19x87 feet, slag roof, cement floors, electric work. Contract awarded to J. Newborn, 831 North Sixth street, Philadelphia.

**Shop and Garage**, East side Fifty-sixth street, North of Race street, \$4,400. Owner, Mary A. Fassett, 555 North Fifty-sixth street, Philadelphia. Brick, 1 story, 20x40 feet, garage, 1 story, 40x16 feet, slag roof. Contract awarded to J. P. Collins, 5632 Walnut street, Philadelphia.

**Residence (add.)**, 505 Sixty-seventh avenue, Philadelphia, \$3,000. Architect, private plans. Owner, C. R. Millan, on premises. Stone, 2 story add., 7x35 feet, hardwood floors, electric work. Contract awarded to G. A. Meissner, Fernwood, Pa.

**Garage**, 132 East Sedgwick street, Philadelphia, \$2,250. Architect, private plans. Owner, Herman Horn, Jr., on premises. Stone, 1 story, 20x21 feet, slag roof, cement floors, electric lighting. Contract awarded to John R. Erbe, 2551 North Sixth street.

**Garage**, 8408 Navahoe street, Philadelphia, \$2,000. Architect, private plans. Owner, H. W. Butterworth, on premises. Stone, 1 story, 20x21 feet, slag roof, cement floors, electric lighting. Contract awarded to Marshall & Pierce, 1524 Chestnut street.

**Residence (alts. and add.)**, 803 Wharton street, \$5,000. Architect, private plans. Owner, A. Barlieu, on premises. Brick, 2 stories, 18x14 feet, general alterations. Contract awarded to Federal Cont. & Eng. Co., 1240 Reed street, Philadelphia.

## Pennsylvania Construction News

**Club House**, Brookline, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Brookline Square Club, Brookline, Pa. Hollow tile and brick, 2 stories, 175x160 feet, auditorium 32 feet high, 60x100 feet, will contain locker rooms, dining rooms, lounging rooms and hall, vapor heat-

ing, electric lighting, tile and marble work, steel work. Plans about completed. Architects will be ready for bids in ten days.

**Bank and Office Building**, 23 North Third street, Williamsport, Pa. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, First National Bank, William P. Beeber, president, Williamsport, Pa. Brick and steel, 4 stories, 52x60 feet. Plans in progress.

**Garage**, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Norman I. Gruber, Yost avenue, Spring City, Pa. Tapestry brick, 1 story, 18x24 feet, asbestos shingle roof, concrete floors, hot air heat, electric light, garage door, door hangers and track, rolling doors. Plans in progress.

**Garage and Repair Shops**, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Frank Bauer, Royersford, Pa. Brick, stone, 2 stories, 40x60 feet, composition roof, concrete and maple floors (heating and plumbing reserved), gasoline and oil tanks, metal sash, door hangers, metal sash, sliding doors. Plans in progress.

**Colonial Residence**, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, M. E. Latshave, 376 Second avenue, Phoenixville, Pa. Stone, 2½ stories, 68x28 feet, tile roof, oak and tile floors, hot water heat, electric light, metal lath, dumb waiter, plumbing, septic tanks, stone work, iron work, Morgan doors, bond. Plans in progress.

**Hotel (alts. and add.)**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Ardmore Hotel, William J. Armstrong, Ardmore, Pa. Brick and steel, fireproofing, hardwood floors, plate glass, metal ceilings, metal window sash, leaded transoms, plate glass mirrors, terrazzo floors, hollow metal sash. Plans completed. Owner will take bids.

**Club House**, Bangor, Pa. Architect, C. F. Spangenberg, Bethlehem, Pa. Owners, Jacksonian Democratic Club, care of architect. Brick, 2 stories, 40x60 feet, slag roof, hardwood floors, mett lath, electric light. Architect taking bids due May 1st.

**Factory**, Easton, Pa. Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa. Owner, A. E. Bergstein, 21 North Eighth street, Easton, Pa. Brick, steel, 2 stories, 50x100 feet, slag roof, maple floors, metal lath (heating, electric work and plumbing reserved). Plans in progress.

**School**, Easton, Pa. Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa., and Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, College Hill School, care of Arthur Wilkinson, Easton, Pa. Tile, 1 story, 8 rooms, maple floors. Sketches in progress. Too early for details.

**Public Garage**, Pottstown, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Samuel R. Haws, Ardmore, Pa. Brick and steel, 2 stories, 40x60 feet, slag roof, cement floors, hot water heat, electric lighting. Plans in progress.

**Residence**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, John Di Santo, Ardmore, Pa. Hollow tile and plaster, 2½ stories, 24x36 feet, shingle roof, hardwood floors, hot water heat, electric lighting, tile work. Plans completed. Owner will take bids.

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**Residences (2), Merion, Pa.** Architect, Frank R. Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone and hollow tile, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work. Plans in progress.

**Residence and Garage, St. Davids, Pa.** Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, G. Alexander Davison, 4300 Chestnut street, Philadelphia. Stone, cut stone, hollow tile and stucco, 2½ stories, 42x44 feet, slate and slag roof, oak and pine floors, hollow tile, bond, iron work, tile work, electric light, metal lath, vapor heating, hot water heating alternate. Architects taking bids due April 27th.

**Residence and Garage, Wynnewood, Pa.** Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owners, Knox Development Co., Wynnewood, Pa. Brick, hollow tile, stucco and steel, 2½ and 1½ stories, 35x26 feet and 19x15 feet, shingle roof, oak, pine and cement floors, electric light, tile work, rolled steel sash, bond. Architect taking bids due April 30th.

**Stable, Protectors, Pa.** Architects, Hoffman Henon Co., Finance Building, Philadelphia. Owners, Philadelphia Catholic Protector for Boys, on premises. Stone, hollow tile and stucco, 1 story, 139x45 feet and 90x36 feet, asbestos shingle roof, wood block floors, roof ventilators, iron work, bond, metal lath. Architects taking bids due April 28th at 10 A. M.

**Junior High School, South Side, Easton, Pa.** Architects, Michler & Shnyder, Drake Building, Easton, Pa. Owners, School Board of Easton, R. E. Peifer, secretary, North Second street, Easton, Pa. Stone, 2 stories and basement, 110x235 feet, slag roof, maple floors, hollow tile, metal lath, tile work, safety treads, roof ventilators, metal weather strips, waterproofing and dampproofing, bond, floor hardener, iron stairs (heating, electric work and plumbing reserved). Owners will be ready for bids May 1st.

**Bank and Office Building (heating, plumbing, etc.), Shamokin, Pa.** Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Guaranty Trust & Safe Deposit Co., Shamokin, Pa. Architect taking bids due as soon as possible.

**Residence (alts. and add.), Easton, Pa.** Architect, William Michler, Drake Building, Easton, Pa. Brick, 2½ stories, general alterations, hardwood floors. Plans in progress.

**School, Lebanon, Pa.** Architects, Richer Ritcher & Eiler, Reading, Pa. Owners, Lebanon School Board, W. R. Mark, secretary, Lebanon. Brick, hollow tile, steel and iron, 2 stories and basement, 247x78 feet, tile roof, composition floors, castone, roof ventilators, waterproofing, iron stairs, bond, hollow metal doors, rolled steel sash and skylight, tile and terrazzo work (heating, lighting and plumbing reserved). Owners taking bids due April 27th.

**Twin Residence, 24-26 North Sixth avenue, West Reading, Pa.** Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, William F. Fexter, 28 North Sixth street, West Reading, Pa. Brick, 3 stories, 30x50 feet, slate and tin roof, pine floors, hot water heat, electric light. Plans in progress.

**School and Convent, Ridley Park, Pa.** Architect, Charles J. Mitchell, 15 South Twenty-

first street, Philadelphia. Owners, St. Madeleine's Roman Catholic Church, Ridley Park, Pa. Stone, brick, steel, cut stone and cement, 2 stories, 57x52 feet, slag roof, concrete, composition, maple and pine floors. Revised plans in progress.

**Girls' Memorial Camp, Bradford Hills, Pa.** Architect, Wesley Leshner Blithe, 608 Chestnut street, Philadelphia. Owners, Children's Country Week Association, Wesley Building, Philadelphia. Frame, 1½ stores, shingle roof, various sizes, pine floors, electric work, plumbing, toilet rooms, etc. Plans about completed.

**American Legion Building, Milton, Pa.** Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, American Legion, Milton, Pa. Architect taking bids due May 5th.

**Supplies, Harrisburg, Pa.** Owners, Board of Commissioners of Public Grounds and Buildings, Samuel B. Rambo, secretary. Laboratory and engineering supplies, paints, upholstering supplies and general hardware, lumber, park supplies, general repairs and hauling, plumbing and power plant supplies. Owners taking bids due May 8th at noon, standard time.

**Residence, Malvern, Pa.** Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Malvern Realty Co., Malvern, Pa. Architect taking bids.

**School Building, Bryn Mawr, Pa.** Architects, Allen & Collins, 75 Newberry street, Boston, Mass. Owners, Baldwin School, Bryn Mawr, Pa. Architects taking bids due April 27th.

**Elks' Club, Williamsport, Pa.** Architect, F. Arthur Rianhard, Masonic Temple, Williamsport, Pa. Brick, concrete, limestone and steel, 4 stories, 70x145 feet. Revised plans in progress.

**Wholesale Distributing House, Bethlehem, Pa.** Architect, private plans, care of R. W. Richardson. Owners, Swift & Co., 60 North Market street, Boston, Mass. Brick and reinforced concrete. Plans completed. Owners will take bids.

## Pennsylvania Contracts Awarded

**Bank and Office Building, Shamokin, Pa., \$197,000.** Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Guaranty Trust & Safe Deposit Co., Sha-

mokin, Pa. Brick, granite, reinforced concrete and steel, 1 story and mezzanine, 95x50 feet, asbestos built-up roof, cork tile and cement floors, hollow tile, metal ceilings, iron work, electric lighting, steam heating. Contract awarded to Shamokin Lumber & Const. Co., Shamokin, Pa.

**Church, Mt. Carmel, Pa.** Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Rev. M. Mayer, C. S. S. T., Mt. Carmel, Pa. Cut stone, steel and castone, 1 story, 57x101 feet, slate roof, (alternate) Spanish tile roof, maple floors, electric lighting, metal lath, tile and marble work, bond, iron work (heating reserved). Contract awarded to East End Lumber Co., Shamokin, Pa.

**Residence, Rydal, Pa.** Architects, Strickland, Blodgett & Law, Boston, Mass., and Charles Read, Elkins Park, Pa. Owner, Joseph L. Dilmsen, Elkins Park, Pa. Reinforced concrete, stone, steel and castone, 2½ stories, 82x31 feet and 49x21 feet, slate roof, oak and pine floors, waterproofing, iron work, bond, metal lath, (heating, plumbing, lineoleum floors, tile work, metal weather strips reserved). Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

**Residence, Ardmore Park, Pa.** Architect, John Charles Norton, Ardmore, Pa. Owner, Michael Bonvenduro, Ardmore, Pa. Penn Building Block and stucco, 2½ stories, 26x38 feet, slate roof, hardwood floors, hot water heating, electric lighting. Contract awarded to Tony White Brothers Co., Ardmore, Pa.

**Residence, Haverford, Pa.** Architect, Charles Barton Keene, Bailey Building, Philadelphia. Owner, Joseph M. Pugh, Morris Building, Philadelphia. Stone, 2½ stories, 40x88 feet, slate roof, oak and pine floors, iron work (plumbing, heating, electric work and tile work reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

**Residence (alts. and add.), Glen Road, Ardmore, Pa.** Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, J. Clark Moore, Jr., on premises. General alterations. Contract awarded to A. Artis, 310 South Fourth street, Philadelphia.

**Projecting Booth, Theatre, Fourth and Market streets, Chester, Pa.** Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Carpentry, concrete work, plastering, lighting repairs, zinc floors, hollow tile. Contract awarded to



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Kober Const. Co., 34 South Seventeenth street, Philadelphia.

**Twin Residences**, Pottstown, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Samuel R. Haws, Ardmore, Pa. Brick and plaster, 3 stories, 18x40 feet each, tile and slag roof, hardwood floors, hot water heating, electric lighting, tile work, sun porches. Contract awarded to George Grimley, Pottstown, Pa.

**Coal Yard Addition**, Norristown, Pa. Architect, private plans. Owners, Stony Creek Railroad Co., Nooton Coal Yard, Norristown, care of Philadelphia & Reading Railroad, Reading Terminal, Philadelphia. Contract awarded to Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia.

**Garage Storage Building**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Hale Motor Co., Ardmore, Pa. Brick, steel, concrete block, 1 story, 54½x145 feet, certainteed built-up roof, cement floors, steam heating, electric lighting, hollow metal skylights and doors. Contract awarded to Main Line Const. Co., Ardmore, Pa.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. The following contracts awarded:

Butler County, Route 214, Fairview Township. One course reinforced concrete and hillside vitrified brick. \$117,740.50.

Crawford County, R-200, Blooming Valley Borough and Richmond Township. One course reinforced concrete. Contract awarded to Fort Pitt Const. Co., Pittsburgh, Pa. \$328,978.10.

Crawford County, R-271, Oil Creek Township and Hydetown Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Smethport Const. Co., Carlton, Pa. \$170,401.

Crawford County, R-85, A-2245, Spring Township and Springboro Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$242,154.12. Contract awarded to Henry W. Horst Co., Rock Island, Ill.

Mercer County, A-2106, Perry Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Henry W. Horst Co., Rock Island, Ill. \$236,015.90.

Clarion County, Route 214, Appli. 2233, Clarion and Monroe Townships. One course reinforced concrete and hillside vitrified brick. Contract awarded to F. S. Wilson, Kittanning, Pa. \$162,067.10.

Clarion County, R-66, A-1939, Clarion Township and Borough. One course reinforced concrete. \$119,199.20. Contract awarded to L. H. Hileman Const. Co., New Kensington, Pa.

Northampton County, A-2225, North Catasauqua Borough. One course reinforced concrete. \$26,614.24. Contract awarded to Monroe Miller & Sons, Northampton, Pa.

Northampton County, A-2252, Wilson Borough. One course reinforced concrete. \$38,656.05. Contract awarded to J. E. & H. J. Miles, Easton, Pa.

York County, R-216, A-2175, Chanceford Township and Lower Chanceford Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$214,897.30. Contract awarded to Comerford Const. Co., Fifth and Sansom streets, Philadelphia.

York County, 332, A-2179, East Prospect Borough, Windsor and Lower Windsor Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$214,972.10. Assigned to Souder Const. Co., Lancaster, Pa.

York County, R-333, A-2180, Sec. 3, Hope-well Township. Either bituminous surface course on concrete foundation or one course

reinforced concrete. Assigned to W. C. Guncheon & Co., Smethport, Pa. \$109,690.34.

York County, R-333, Winterstown Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to A. Grant Raub, Red Lion, Pa., \$183,951.29.

## New Jersey Construction News

**Church (alts.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Central Baptist Church, Montgomery and East Hanover streets, Trenton, N. J. Architect selected.

**Apartment (alts. and add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Dr. William J. Hall, The Leonard Apartments, Bellevue and Prospect streets, Trenton, N. J. Brick, 3 stories, 34x60 feet, slag roof, hardwood floors, tile work, electric lighting. Plans in progress.

**Nursery**, East Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Carolyn Stokes Nursery, care of architect. Brick, 2 stories, 30x45 feet, slag roof, hardwood floors, vacuum heat, electric light, metal lath, tile and marble work, skylights. Architect ready for bids.

**School**, near Westville, Depford Township, Gloucester County, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Depford Township School Board, H. I. Clement, Westville, N. J. Brick, 1 story and basement, 6 rooms (heating, plumbing and electric work reserved), shingle roof, maple floors, hollow tile, metal lath. Plans in progress. Will be ready for bids in two weeks.

**Town Hall**, Altha, N. J. Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa. Owners, Borough of Altha, Carl Biet, Altha, N. J. Tile, 2 stories, 30x80 feet, slag roof, pine floors, hollow tile, roof ventilators (heating, electric work and plumbing reserved), ornamental iron work. Plans in progress.

**Residence**, Westfield avenue, Trenton, N. J., \$6,000. Architect, private plans. Owner, William Hicks, 1402 West State street, Trenton, N. J. Brick, stucco, 2½ stories, 22x40 feet, slate roof, hardwood floors, hot air heat, electric light, tile work. Owner will build.

**School**, Phillipsburg, N. J. Architect, E. H. Wenzelberger, 3 Centre Square, Easton, Pa. Owners, School Board, care of Alfred Case, secretary, Phillipsburg, N. J. Brick, 1 story, 119x104 feet, slate roof, pine floors, hollow tile, metal lath, tile and terrazzo work. Owners will take bids May 1st.

**Theatre, Arcade and Store Building**, Kentucky avenue and Boardwalk, Atlantic City, N. J. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Company of America, 1218 Market street, and Guilford's, Inc., 1038 Market street, Philadelphia. Brick, steel, concrete, stone and terra cotta, 170x190 feet. Architects taking sub-bids.

**Store and Apartment**, Atlantic City, N. J. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, H. C. M. Realty Co., Louis Max, Jr., secretary, 20 North Indiana avenue, Atlantic City, N. J. Brick, 3 stories, 80x120 feet, slag roof, hardwood floors, tile and marble work, hollow tile, hot water heat, electric light, steel skylights. Architect sub-letting.

**Bank Building**, Gloucester, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Gloucester City Trust Co., Gloucester, N. J. Brick, cut stone and reinforced concrete, 1 story, 70x48 feet, slag

roof, cement floors, waterproofing and damp-proofing, iron work, bond, tile work, metal lath, steam heat, electric light. Architects taking bids due April 27th.

**School**, Haddon Heights, N. J. Architect, Charles R. Piddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Heights, N. J. Lowest bidders: Wills Bill Co., 1706 Sansom street, Philadelphia, \$329,923; Friel McLeister Co., Inc., 1615 Spruce street, \$333,333. Heating and ventilating, United Plumbing & Heating Co., \$39,500. Plumbing, United Plumbing & Heating Co., \$16,600. Electric, Strang Electric Co., 214 South Seventh street, Philadelphia, \$7,513.

**Laundry (add.)**, Third and Taylor streets, Camden, N. J. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owners, Domestic Laundry, 10 South Third street, Camden, N. J. Reinforced concrete and steel, 3 stories, slag roof, concrete floors, electric light, brick chimney, roof ventilators, rolled steel skylights. Revised plans in progress.

**School for Colored Youth**, Haddonfield, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Education, Haddonfield, N. J. Lowest bidders: Wills Bill Co., 1706 Sansom street, Philadelphia, \$28,982. Heating, F. D. Windell, 1713 Sansom street, Philadelphia, \$3,370. Plumbing, W. J. Kelly, Ferry avenue and Van Buren street, Camden, N. J., \$2,579. Electric, A. A. Duckert, Camden, N. J., \$1,015.

**Grade School**, Grove street, Haddonfield, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Education, Haddonfield, N. J. Lowest bidders: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, \$51,700. Heating, F. D. Windell, 1713 Sansom street, Philadelphia, \$5,318. Plumbing, W. J. Kelly, Ferry avenue and Van Buren street, Camden, N. J., \$3,080. A. A. Duckert, Camden, N. J., \$1,806.

## New Jersey Contracts Awarded

**Store and Apartments**, Northeast Corner Maurice and Chestnut streets, Camden, N. J. Architect, private plans. Owner, Mrs. Mary Naden, 773 Kaighn avenue, Camden, N. J. Brick and concrete, 2 stories, 20x80 feet, slag roof, cement and wood floors, iron work. Contract awarded to Potts Brothers & Cooper-son, 1016 Cherry street, Philadelphia.

**Community Garage**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Dr. E. H. Ginnelly, care of architect. Brick, 1 story, 103½x37 feet, slag roof, concrete floors, electric lighting. Contract awarded to William Burton, American Mechanics Bank Building, Trenton, N. J.

**Residences (2)**, Trenton, N. J., \$5,000. Architect, private plans. Owner, Anna P. Callas, care of builder. Frame and shingle, 2½ stories, 28x43 feet, slate roof, pine floors, electric lighting, hollow tile. Contract awarded to H. Pindum, 233 William street, Trenton, N. J.

**Storage and Warehouse**, Paulsboro, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owner, Edward McIntyre, Paulsboro, N. J. Brick, steel and cast-iron, 2 stories, 76x40 feet, slag roof, pine and cement floors, steam heating, electric lighting, metal lath, rolled steel sash, iron work. Contract awarded to Wills Bill Co., 1706 Sansom street, Philadelphia.

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## Miscellaneous Construction News

**Bank**, Claymont, Delaware. Architect, Edward C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, structural steel, 1 story, 37x44 feet, hot water heat, slag and tin roof, composition floors, bank fixtures, ornamental iron work. Plans in progress.

**Club House**, location withheld. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, Dupont C. C., care of Dr. Bradshaw, Dupont Building, Wilmington. Stone and stucco. Sketches in progress.

**Store (alts. and add.)**, Market street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, name withheld. Brick, steel, 2 stories, 32x100 feet. Plans in progress.

**Residence**, Thirty-fifth and Market streets, Wilmington, Del. Architects, Brown & White-side, Dupont Building, Wilmington, Del. Owner, John Malascalza, 213 King street, Wilmington, Delaware. Brick, cut stone, 2½ stories, 32x39 feet, composition roof, hardwood floors, electric light, tile work, marble work. Architect taking bids due as soon as possible.

**Building (alts. and add.)**, 211 East Front street, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, Harry Greenberg, 213 East Front street, Wilmington, Del. Brick, 3 stories, 16x35 feet, general alterations. Contract awarded to J. A. Bader & Co., Lackey Building, Wilmington, Del.

**Residence**, Irving Park, Greensboro, N. C. Architect, Charles Barton Keen, Wachovia Bank and Trust Building, Winston-Salem, N. C. Owner, William Y. Preyer, Greensboro, N. C. Architect taking bids due May 14th at new address.

**Bakery Building**, Buffalo, N. Y. Architect, A. G. Zimmerman, 85 Ninth Avenue, New York City. Brick, reinforced concrete, steel and cut stone, Barrett and tile roof, cemen and maple floors, hollow tile, safety treads, roof ventilators, metal weather strips, waterproofing, terra cotta, iron work, bond, kalamein and hollow metal doors, rolled steel sash and skylights, hollow metal skylights, marble and terrazzo work, metal lath (heating, electric light, plumbing and elevators reserved). Architect taking bids due May 7th.

**Warehouse and Office Building**, Southeast Corner Fourth and T streets, Washington, D. C. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, The Sanitary Grocery Co., Washington, D. C. Reinforced concrete, brick and steel, 4 stories and basement, 150x250 feet, slag roof, concrete floors, waterproofing, iron work, bond, kalamein doors, rolled steel sash (heating, electric work, elevators and plumbing reserved). Contract awarded to C. H. Tompkins Co., 1612 Park road, Washington, D. C.

Chas. Barton Keen, Architect, Registered, announces that owing to the constantly increasing growth of his practice in the South, it is necessary to establish his Home Office in Winston-Salem, North Carolina, and on May 1 will open offices at Wachovia Bank and Trust Building, Winston-Salem, N. C.

Mr. Keen has associated with Mr. G. Edwin Brumbaugh, Architect, to assist in taking care of his Philadelphia Practice with offices at 1733 Real Estate Trust Building.

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## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 17, 1923. Sealed Proposals will be opened in this office at 3 P. M., May 14, 1923, for repairs to Medical Officer's Residence, No. 501, of the P. H. S. Hospital, at Perryville, Md. Specifications may be obtained from the Superintendent of Construction at the site, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 17, 1923. Sealed Proposals will be opened in this office at 3 P. M., May 14, 1923, for painting roofs, etc., at the United States Public Health Service Hospital No. 42, at Perryville, Md. Specifications may be obtained from the Superintendent of Construction at the site or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Wynne A. Murphy, Robert P. Quigley and William J. O'Connell, formerly with Irwin and Leighton, Contractors and Builders, Philadelphia, have formed a co-partnership under the name Murphy-Quigley & Co., General Contractors and Builders, and have opened offices at 1524 Sansom Street, Phila.

(Continued from page 260)

in the *Constructor*. Mr. Wilson, our chairman, was in Kansas City and got 15 points on an equitable contract agreed to by the State Highway Officials. Let me predict to you that, although the chief engineer of the Tennessee Highway Department was out there, we are not going to get any improvement. In the convention, as in Nashville, they agreed to our 50 points, but never put them into effect.

This is my suggestion for settlement of the question. Through Mr. Hoover's suggestion to President Harding, Gordon A. Ramsey of Washington has been appointed chairman of a joint committee on interdepartmental contracts. I have been informed that there are about 100 bureaus of the Federal Government in Washington that are making contracts of various kinds, and each bureau has a different form of contract. Mr. Hoover is, we all agree, a very practical man. He brought the matter to the President's attention and Mr. Ramsey was instructed to work out a tentative form of equitable contract, which would result in lower bids on Government work. A tentative report of this joint committee was sent to our Association in Nashville for criticism. I took a copy before the Nashville Chapter of the A. G. C. and we sent recommendations to Mr. Ramsey, who thanked us for our interest and agreed to all our suggestions; and just before I left home he sent me a book covering laws which must be amended before the contract revision can go into effect.

I am frank to say that I believe in a

year or so all Government work will be done on a fair and equitable contract. I believe that all our efforts should be concentrated on Washington rather than on different States. However, there is a brighter day approaching. Contractors everywhere are realizing that they are a necessary adjunct to the business structure and that they are entitled to a fair and equitable contract, the provisions of which make them equals of the other party; and when this day arrives we will earn and merit the confidence of the public and respect for ourselves and no longer will be referred to as gamblers or crooks.—*The Constructor*.

## HOW FARMER JACKSON LOST \$600 TRYING TO SAVE \$300

BY F. W. IVES

*Agricultural Engineer*

Good friends, you do not pull your own teeth. Nor do you try to fill them. You go to the nearest dentist and let him do it.

The maker of building plans, the architect, is a somewhat rarer bird, with very little of the advantage of the dentist in dealing with people driven to him by sheer painful necessity. But, just the same, those who do *not* go to the architect at the first generally have the bitter experience of being stung by their own lack of knowledge in the long run.

The architect who cannot save you the amount of his fee on a building, in terms of convenience therein and on materials and workmanship, is not worthy of his hire. If he is a good architect, his period of study and preliminary training is fully as long as that of the average dentist, lawyer, and undertaker, to say nothing of the plumber, brickmason, and carpenter; and his help is often worth many times its cost.

Yet how often do we pass by the architect's service because we feel that it adds just that much expense to the house, and, besides, we can get plans for nothing, anyway! As a matter of fact, it usually costs more *not* to have an architect than it does to have one. A few typical examples will show you what I mean.

A student whom we will call Jackson lived on a farm. He sat in classes and heard the warning of an instructor about the cost of plumbing, chimneys, and stairways carelessly planned or not planned at all.

The next summer Jackson and his father decided to build a "modern" house, plumbing and "everything." A local carpenter, a good builder, helped them make a plan of a house something like one they had seen a picture of in some magazine. The plans were drawn on a pine board. After the frame was



up, the partitions in, and the roof on, they went to town to get a plumber to figure on the necessary piping. On account of the awkward arrangement and relation of bathroom, kitchen, and laundry, long leads of pipe were necessary. The plumber's estimate was \$1,200 for the job.

In despair, Jackson came to his former instructor and wanted to know if the plumber was robbing them. The instructor went over the rough sketches of the floor plans and showed Jackson where a few changes made in the start would have saved just half of the plumber's bill.

When asked why they had not employed an architect, Jackson stated that the plans would have cost \$300, and that would have been too much. The following example in arithmetic enlightened him, as it may some others:

\$1,200 estimated cost of plumbing.  
600 estimated saving by careful plan.  
\$ 600 loss by not having plan.  
300 architect's fee.

\$ 300 net saving had architect been employed.

There were other items that would have made their house more livable, and where a direct saving of about \$600 could have been made. Furthermore, an estimate of cost could have been made in advance.

Another man, anxious to save, bought a set of ready-made plans for 50 cents. An architect had asked him \$200. The house was a square, two-story affair of rather common arrangement. The frame was erected, the partitions set on both floors without considering the stairway or chimneys, these sometimes being left to the last in construction.

The day came when these necessary elements were to be built, and it was discovered that two separate plans had been used—one for the first floor and another for the second floor—two sets of plans of the same outside dimension having been mixed. The cost of making the necessary changes amounted to \$560 in labor and material. Your own arithmetic applied here will show you that the architect's plans would have saved not less than \$360 on this one item alone.

A good farmer obtained free plans from an equipment company. He took them to some local contractors for estimates. The lowest bid was \$6,000. This looked rather high to him, and he sought the service of a barn architect. By cutting out needless equipment, the barn was reduced in size, increased in efficiency and animal comfort, and new bids received were accepted at \$4,800. After

deducting the architect's fee, this farmer had saved nearly \$1,000.

These examples are typical of many that have come to the writer's attention, and may be verified by names and dates. They are given in hope that others will profit by them.

Any building worth building is worth planning and an estimate of cost and specifications, even if it be a dog house or a gate. A knowledge of cost in advance will save many a hard-earned dollar. It is the only check on a dishonest contractor, and a protection for the honest contractor as well as the owner.

A plan allows for change in the building before it is built. Changes in masonry, framing, plastering, etc., are much more expensive than erasing lines on a drawing.

Somehow I feel that if you pull your own teeth—why, then draw your own plans; the results will be much the same.—*Farm and Fireside.*

#### INTERLOCKING HOLLOW TILE WALLS PROVE EFFECTIVE FIRE BARRIER

The fire-resistive qualities of hollow tile were demonstrated in a very convincing manner at Stockton, Cal., recently, when the interior of a three-story apartment house was gutted by fire, while the exterior walls, built of interlocking tile, remained intact; in fact, the stucco with which the walls were covered was not even cracked. Architect Ralph P. Morrell of Stockton, planned the structure for the late Mr. W. H. Bennett, and it was supposed to represent the last word in apartment house design. The property was valued at \$150,000.

From one end of the country to the other we read of America's tremendous fire losses, averaging the past two or three years as high as \$5.25 per capita. Engineers who have studied the situation say there is but one real cure—build better buildings. Had the floors and partitions in the Bennett Apartments been composed of the same material as the exterior walls, there would have been a different story to tell. It is reasonable to assume that the damage to the building would have been nil. The flames would have been confined to the basement, where they originated. As it happened, the floors and joists were wood, and so was the lathing and interior trim. The exterior walls, then, constituted practically the only fireproof feature of the building. Had these walls been built of some other material, it is alarming to predict to what extent the fire would have raged. Probably the entire block would have been destroyed. To quote from an interview with the Stockton Building Inspector after the fire:

"There was a dwelling within three

feet of the Bennett Apartments, and the fact that the tile walls remained intact throughout undoubtedly permitted the saving of the dwelling, with no damage whatsoever. The entire outer shell of the building as it stands today can be used in rebuilding.

"The Bennett Apartment house was a three-story building, the exterior walls of which were 12 inches thick for the first two stories and 8 inches thick for the third story, and built of Denison interlocking terra-cotta tile. The damage by fire was greatest on the third story. The roof was entirely destroyed. With the exception of slight smoke damage on the northwest wall and the broken glass of the window, there was no damage whatever to the outside walls. A very careful inspection was made of the inside of the walls where the trim had burned away, and especially above the third floor ceiling, where the tile was exposed to the direct action of both fire and water, and there was no sign of failure of any kind in the tile walls."—*Architect and Engineer.*

#### BUREAU OF STANDARDS TESTS WEATHERING OF LIMESTONE

A series of tests to determine the resistance of limestone to frost action is now under way at the Bureau of Standards.

Small samples cut from the stone are soaked in water and are then frozen. After freezing they are put back in the water to thaw.

Of the samples tested many showed serious disintegration after they had been frozen seventy-five times. Others have now been frozen as many as eight hundred times and show as yet no serious disintegration. The samples come from different localities; and when the tests are completed the data will be of value to architects in the selection of building stone.

Limestone is now used extensively as a facing stone. It is less expensive than granite and more easily cut, which makes it quite popular. It is not so durable as granite, however, and is apt to show surface weathering within a hundred years.

Other tests being undertaken at the Bureau have to do with waterproofing compounds. The purpose of such compounds is to lengthen the life of the stone and prevent the absorption of unsightly stains.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.



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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 18  
May 2, 1923

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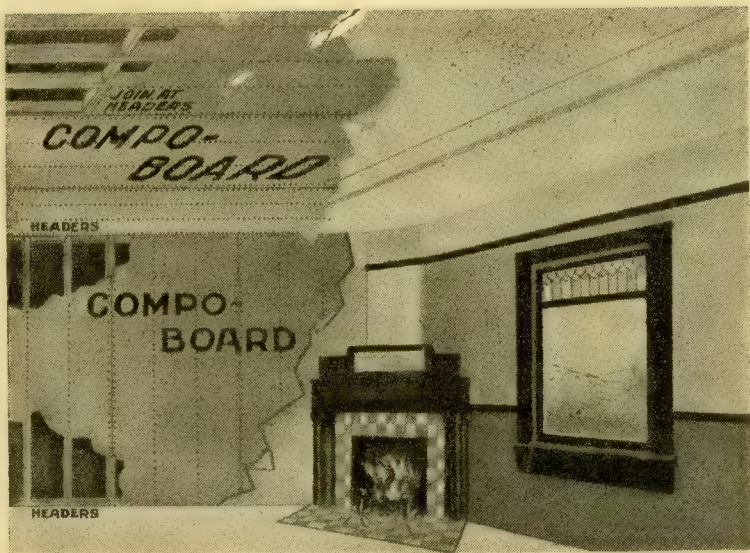
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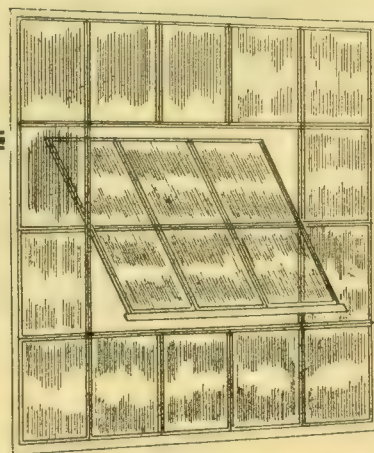
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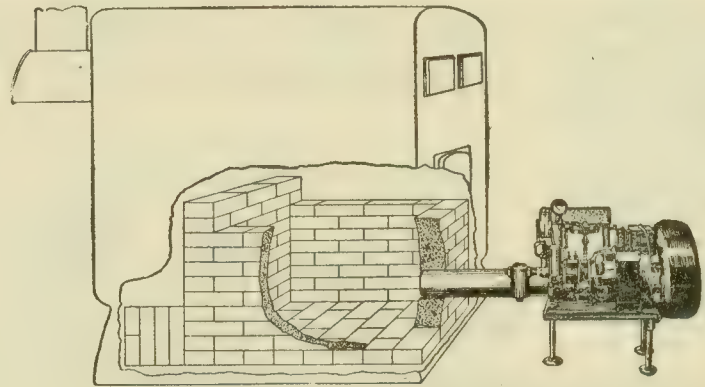
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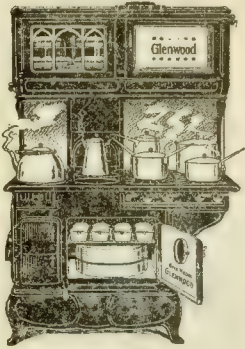
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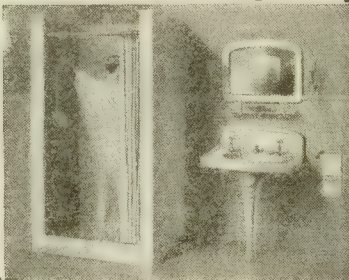
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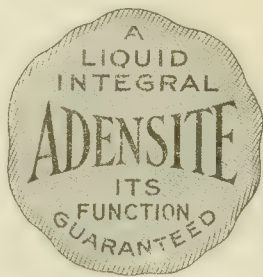
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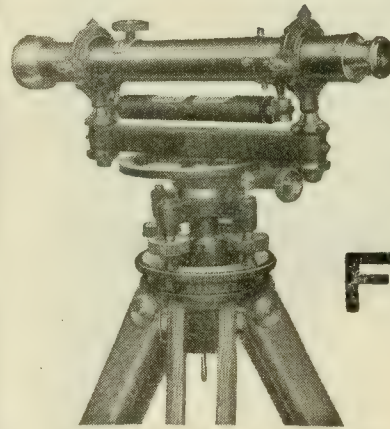
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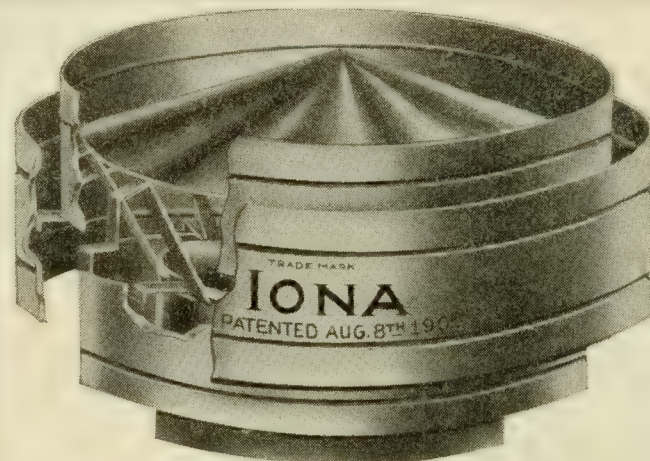
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 18

PHILADELPHIA  
May 2, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.  
PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### GOOD CONCRETE UNDER JOB CONDITIONS

By WILLIAM C. KOBER, *Secretary, Adensite Co., Inc.*

The waterproofing and hardening of concrete is, to put it mildly, rather a vexed question in theory in this country; in practice, it is much simplified.

The dovetailing of theory with practice is a difficult procedure in this activity as the actual conditions under which production takes place are filled with a large number of what the laboratory man calls "variables."

Contractors ARE making hard and waterproof concrete on the job every day.

Conflicting opinions are current as to how such concrete is produced.

A little time spent in visiting architects and contractors will convince an observer that the large majority of concrete structures, where hardness and water resistance are vital, are executed with integral compounds. Questionnaires circulated among architects and engineers substantiate such observation.

There are a number of such compounds of high merit on our market today.

Some of these compounds are regularly exported to foreign countries. In Europe where the home production of such materials is small in number and the import is only of our best brands,

the question of choosing a compound is not as confusing as in America, where the builder, besides having a choice of a number of good products, is faced with the necessity of steering clear of a bewildering number of utterly worthless ones.

The contractor knows that when he deals with a water condition he needs either integral waterproofing in the concrete or a membrane to protect an untreated concrete. The practicing architect realizes this and provides for it.

If ordinary concrete walls, POURED ON THE JOB, with plain water, were waterproof in themselves, the old practice of using mastic and felt or sheet lead as a membrane would never have been so extensively carried on.

Certain laboratory men have their own opinion as to how good concrete should be produced. The general effect of the research work carried on by these men is of real value to the builder and of the greatest value when supplemented and amplified by field observations.

For practical purposes, it should be always borne in mind that a cement expert is a decidedly different agent compared with a concrete expert. The former is doing laboratory work that will be put into action in a thoroughly controlled production carried on in one spot under regulated conditions, while the latter is working in an enterprise where his findings are put into action in operations car-

ried on under conditions that must of necessity be the direct antithesis of the laboratory.

The laboratory viewpoint of concrete is based on a process carried on in an enclosed building, with a regulated temperature. Graded aggregates of fine quality are employed. The mixing, placing and rodding are performed by highly skilled men and the specimens are generally cured in damp storage. This method produces a sound concrete that is waterproof and dustless.

On the job, the temperature is whatever it happens to be. The aggregates are usually delivered "as is" and it is seldom practical to thoroughly analyze them. The labor is not made up of highly skilled technical men.

Under these conditions, the precision of the laboratory is difficult to obtain without some economical and simple method for reducing the variables.

The laboratory has shown conclusively that one of the most important factors in concrete is the water content.

In laboratory work the water content can readily be regulated with a mix of graded aggregates, cement and plain water under technical control all the way through production.

To handle and place concrete under existing commercial conditions with ordinary labor and materials and plain water, it is necessary to use an excess of water for lubricating purposes. In

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general job handling, such a concrete does not get a proper distribution of water through the mix, even with a great excess. "Balling" occurs and much of the cement is not reached by the water. This unhydrated cement remains inert in the mass and its colloidal or gelatinous possibilities are not utilized.

The excess water, after the placing of the concrete, is partially carried away, taking with it particles of the cement and the remainder of this excess evaporates, leaving an excessive number of voids.

There are several floor finishing companies that obtain splendid results by placing the concrete wet and eliminating the excess water after laying by drawing it off. This is done by placing burlap over the wet concrete and placing the dry mix for the next batch on top of it. A floor with the excess water thus eliminated gives a sound, hard, dustless finish. This method has been in use for some years.

There are a number of liquid compounds on the market that so activate the water that a minimum amount may be employed at the beginning of production. Thus the expense and trouble of eliminating the water after placing is dispensed with.

These liquids break down the surface tension of water, diffuse the gauging liquid to a proper hydration of all the cement in the mix; and with a minimum water content gives the mass a plasticity that allows of proper handling and placing by ordinary labor under job conditions. These field observations are borne out by tests with the flow table and du-Nody apparatus.

By eliminating the excess water in the mix, at the same time hydrating the cement properly, the contractor on the job is taking a step forward in the production of sound concrete.

#### THE VALUE OF INSULATION

*How It Can Make Your Home More Comfortable*

There is no getting around the fact that some houses are cold and drafty while others of much the same size and appearance are warm and comfortable. Everybody knows about upstairs rooms in some houses that are veritable bake ovens in summer while rooms in other houses in the same neighborhood remain cool and comfortable even in the hottest weather. These facts often puzzle the prospective builder or buyer of a home. He wonders how he can obtain a comfortable house that will not demand excessive attention and heavy funds to heat and in which he will be assured of a cool summer night's rest. He wants a cool house in summer and a warm house in winter. There are a good many elements that enter into the achievements of these conditions.

#### *A Tight, Warm Home*

First of all, the house must be well built, the windows and doors must be tight; and the walls constructed so that air will not pass through them freely. Then there must be a good heating plant designed to supply heat where it is needed and in proper proportion to the size of the rooms and their exposures. Another requirement has to do with the planning of the house. Open stairways along outside walls form natural passages for currents of air. The outer wall being colder than other walls, chills the air lying against it more rapidly than elsewhere. Consequently the air drops. A stairway of this kind opening upon the living room is sure to make that room drafty. There are a great many details of this kind. Finally and certainly of equal importance is the matter of insulation. You cannot expect to have a house that will not be full of drafts if the outside walls are cold. With insulation in these walls we may avoid much of the discomfort that comes from rapidly changing temperatures in our homes.

#### *Reduced Coal Bills*

The method of obtaining a comfortable home from this point of view is one of the simplest details of building. Careful builders insulate their homes. That is the whole story. They require that a standard insulating material be placed within the walls and second story ceiling or upon the inner surfaces of studs and ceiling joists and it is this material, containing as it does millions of tiny dead air spaces, that is largely responsible for stopping the cold from coming and the heat from leaving.

The need of some material designed to prevent the passage of heat and cold through walls is as old as the art of building. In the sturdy homes of the first New Englanders we see the fore-runners of the modern insulating materials. "Wattle and daub" construction is found in many of these homes; the space between the timbers or studdings was filled with a mixture of mud and straw to keep out the cold. It is certain, too, that the old practice of building a home in vertical layers—that is covering a stone house with wood as an exterior finish or as an interior furring—was simply to impart greater cold resistance to the walls. Later on, "black plaster" became one of the essentials of good building. Until recent years all good houses—especially those in regions where winters are severe—were protected in this way. The contractor cut in lath between the studding and put an extra coat of plaster half way between inside and outside walls. The

(Continued on Page 288)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Club House**, Eighth and Tabor Road, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Philadelphia Rifle Club, on premises. Buff brick, 2 stories and basement, 80x213 feet, red tile roof, steam vapor heating, electric light, tile and marble work, plumbing, hardwood floors, dumb waiter. Architect taking bids due May 7th at 10 A. M.

**Store (alts.)**, 35 South Fifty-second street, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Benjamin D. Beerwald, on premises. Architects taking bids due May 5th.

**Garage**, 4941 Lancaster avenue, Philadelphia. Architect, private plans. Owners, Tate Brothers, on premises. Brick, 1 story, 50x45 feet, slag roof, cement floors, copper skylights, bond, iron work. Owners are building.

**Garage (add.)**, 875 North Forty-fifth street, Philadelphia. Architects, Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia. Owner, Thomas Aiken, on premises. Brick and steel, 1 story, 15x105 feet, slag roof, cement floors, heating and lighting extensions, rolled steel sash and skylights. Revised plans in progress. Owners will be ready for bids in ten days.

**Hospital Buildings**, Broad and Ontario streets, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Samaritan Hospital, on premises. Brick, steel, stone and concrete. Plans about completed. Architect will be ready for bids in a few days.

**Tenement Houses (10) and Residence**, Fifty-second, Beaumont, Litchfield, Florence and Warrington avenues, \$420,000. Architect, private plans. Owner, Joseph W. Kissick, 1402 Real Estate Trust Building. Brick, 2 stories, 36x72 feet and 18x72 feet, slag roof, hot water heat, electric lighting, tile work, metal lath, hardwood and pine floors, cement work. Owner will build.

**Manufacturing Building and Boiler House**, Wissahickon avenue and Abbottsford avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Atwater Kent Co., 4937 Stenton avenue, Philadelphia. Brick, concrete and steel, saw-tooth construction roof. Plans in progress.

Architects will be ready for sub-bids in three weeks.

**Apartment Building (alts. and add.)**, 3400 North Seventeenth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, J. F. Bowdle, on premises. Brick, 3 stories, 18x52 feet, hot water heating, slag roof, hardwood floors, electric lighting, general alterations, plumbing, tile work. Plans in progress.

**Apartment House**, Thirty-eighth and Chestnut streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owner, name withheld. Brick, stone, concrete and steel, 4 stories, 48x140 feet, will contain 20 apartments. Plans in progress.

**Lavatory**, rear of Bailey Building, Lit Brothers. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Painting, glazing, carpentry, mill work, terrazzo floors, safety treads, glazing, marble work, plumbing, metal lath, plastering. Architects are subletting.

**Residence**, Sixty-fourth avenue and Sixth street, Oak Lane, \$12,000. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owner, George T. Gravenstine, 609 Sixty-fourth avenue, Oak Lane. Stone, 2 stories and basement, 50x40 feet, slate roof, hardwood floors, vapor heating, electric light, tile work. Owner will build.

**School Building**, Girard avenue, near Forty-fourth street, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, stone and steel, 3 stories. Plans in progress.

**Junior High School**, Tulip, Ann and Memphis streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street. Brick, limestone, cut stone and steel, 3 stories, 290x182 feet, slag roof, maple and mastic asphalt floors, roof ventilators, metal weather stripe, waterproofing, terra cotta, iron work, bond, rolled steel sash and skylights, metal lath, terrazzo (heating, plumbing and lighting reserved.) Owners taking bids due May 5th.

**Church**, Nedro street and Park avenue, Philadelphia. Architect, Charles Stevens, 5918 North Park avenue, Philadelphia. Owners, Mt. Carmel Methodist Episcopal Church, on premises. Stone, 1 story, 90x65 feet, slate roof, pine floors. Architect taking bids due May 5th.

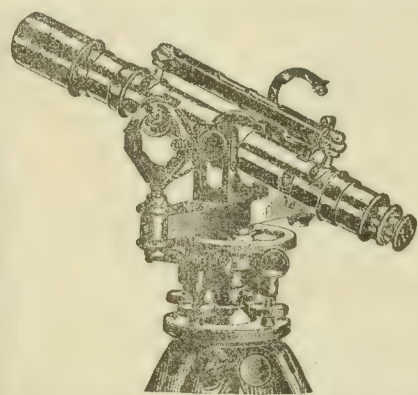
ers, Mt. Carmel Methodist Episcopal Church, on premises. Stone, 1 story, 90x65 feet, slate roof, pine floors. Architect taking bids due May 5th.

**Office Building**, 1805-07 Walnut street, Philadelphia. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Presbyterian Ministers' Fund for Life Insurance, Craig N. Liggett, chairman of Building Committee, Witherspoon Building. Brick, cut stone and reinforced concrete, 3 stories, 125x44 feet, slag roof, cement and pine floors, hollow tile, elevators, roof ventilators, waterproofing, iron stairs and iron work, bond, kalamein doors, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath, steam heating, electric lighting. Architect taking bids due May 9th.

**Building, Strengthening and Replacing Dam**, Fairmount Dam, Fairmount Park, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Water, 216 City Hall, Philadelphia. Rock excavation, 8,000 cubic yards, earth excavation, 12,000 cubic yards, removing old fill, 10,000 cubic yards, New Cyclopean Masonry, 26,000 yards, Portland cement, 35,000 barrels; timber, 15,000 B. M. feet, sheet steel piling, 350,000 pounds. Owners taking bids due May 4th at noon.

**Miscellaneous Work**, Department of Wharves, Docks and Ferries. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, Pier No. 4, South Wharves, foot of Chestnut street, Philadelphia. Schedules A, B, C and D, Girard Pier North Wharves, electric wiring, sprinkler system, water supply and plumbing, steam and hot water heating, respectively. Schedule E, elevation of wall, rip-rap, filling and deck paving for the improving and enlarging of Allegheny Avenue Wharf No. 127, North Delaware River. Bond. Owners taking bids due May 8th at noon, S. T. Deposit of \$10.00 on each schedule. Refund, \$10.00 on each set.

**Supplies**, Board of Education, Philadelphia. Owners, Board of Education, William Dick, secretary, Nineteenth street above Chestnut street, Philadelphia. Bookcases, paints, cord and kindling wood, steel lockers. Owners taking bids due May 3rd at noon.



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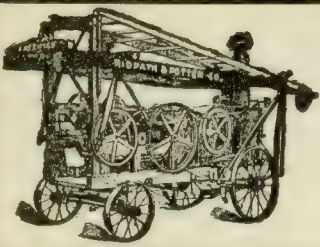
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**Chimneys (alts.)**, Spec. 4818, Navy Yard, Philadelphia. Architect, private plans. Owners, Bureau of Yards and Docks, L. E. Gregory, chief, Washington, D. C. New foundation of wood piles and reinforced concrete under and around existing chimney, transferring load and repairing breeching. Owners taking bids due May 9th.

**Factory and Office Building**, Fifty-third and Willows avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Central Const. & Supply Co., 2222 Arch street, Philadelphia. Brick, cut stone, reinforced concrete, steel and cast concrete stone, 1 story and basement, 80x181 feet, slag roof, concrete, composition and maple floors, safety treads, roof ventilators, iron work, floor hardener, bond, rolled steel sash and skylights, kalamein doors. Architects taking sub-bids.

**Building (alts. and add.)**, Twenty-first and Ontario streets, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Albert F. Brown, Lincoln Building, Philadelphia. Brick and steel, carpentry, mill work, hardware, plumbing, electric work, marble, metal lath, iron work plastering. Revised plans in progress.

**Apartment House**, 5209 Wayne avenue, Philadelphia. Architect, private plans. Owner, George W. Raynor, on premises. Brick, 3 stories (6 apartments), slag and glazed tile roof, hot water heat (oil burning equipment), hardwood floors, electric lighting, tile work. Owner will build.

**Store (alts. and add.)**, 5223 Chester avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Hyman Kurtzman, 886 North Sixth street, Philadelphia. Brick, 1 story, 16x16 feet, slag roof, pine floors, metal ceilings, waterproofing, flush bulks, store fixtures, metal lath, hot water heat, electric lighting. Owner is taking bids.

**Residences (2)**, Wissahickon avenue and Cliveden street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Joseph Biberman, 607 West Upsal street, Philadelphia. Stone, 2½ stories, 42x23 feet, slate roof, oak and pine floors, tile work, iron work (heating, plumbing and lighting reserved). Architects taking bids due May 3rd.

**Residence and Garage**, Southwest Corner Fifty-third and Woodbine avenue, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Louis Frankel, 2219 North Thirty-third street, Philadelphia. Stone, hollow tile, steel and plaster, 2½ and 1½ stories, 32x54 feet and 22x22 feet, shingle tile roof, oak and pine floors, hot water heat, metal lath, tile work, metal weather strip,

iron work (lighting reserved). Architect taking bids due May 5th.

**Residence (alts.)**, 402 Green street, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, Dr. Samuel Eglick, 525 North Fourth street, Philadelphia. Brick, cut stone work, carpentry, mill work, plastering, hot water heat, electric light, plumbing, metal lath, tile and marble work hollow metal skylights, oak and pine floors, painting. Architects taking bids due as soon as possible.

**Residences (20)**, Tenth and Olney avenue, Philadelphia, \$106,000. Architect, private plans. Owner, Ray G. Frick, Judson and Indiana avenue, Philadelphia. Brick, 2 stories, (2) 16x40 feet, (18) 16x37 feet, 12x11 feet, hot water heat, electric light, slag roof, hardwood floors. Owner will build.

**Residences (7)**, 5448 to 60 Diamond street, Philadelphia, \$49,500. Architect, private plans. Owner, Hugh C. Forbes, 5400 Diamond street, Philadelphia. Brick, (1) 3 stories, 16x46 feet and (6) 2 stories, 16x33 feet, 12x13 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residence and Store (add.)**, 5529 Lansdowne avenue, Philadelphia, \$5,600. Architect, private plans. Owner, Thomas Monteith, on premises. Brick, 3 stories add., 16x15 feet, slag roof, electric work. Owner will build.

**Residence**, 6904 Lincoln Drive, Philadelphia, \$25,000. Architect, private plans. Owner, Eugene Raymond, Jr., Commercial Trust Building, Philadelphia. Stone, 3 stories, 27x43½ feet and 21x21 feet hot water heat, electric light, tile work, hardwood floors. Owner will build.

**Residence**, North side Allen Lane, West of Emlen street, Philadelphia, \$20,000. Architect, private plans. Owner, Eugene Raymond, Jr., Commercial Trust Building, Philadelphia. Stone, 3 stories, 45x29 feet and 2 stories, 15x17 feet, hardwood floors, tile work, hot water heat, electric light. Owner will build.

**Store and Storage Building**, Northwest Corner Second and Green streets, \$25,000. Owners, B. & D. Joffe, 600-02 North Second street, Philadelphia. Brick, 3 stories, 37x58 feet, slag roof, hot water heating, electric lighting. Owners will build.

**Residences (8)**, North side Fairthorne street, East of Mathias, \$40,000. Architect, private plans. Owner, G. L. & J. K. Callahan, 542 East Fairthorne street, Philadelphia. Brick and frame, 2 stories, 16x45 feet, hardwood floors, hot water heat, electric light. Owners will build.

**Residences (7)**, South side Loudon street, West of Second street, \$5,000 each. Architect, private plans. Owner, Joseph P. McMahon, 4844 Roosevelt Boulevard, Philadelphia.

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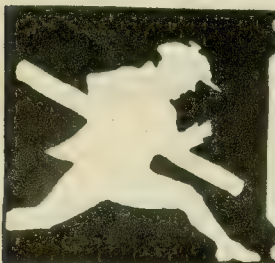
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Brick, 2 stories, 14x25 feet, 12x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Coal Yard Trestle**, 5717 Germantown avenue, Philadelphia, \$5,000. Architect, private plans. Owner, J. J. Sullivan, on premises. Frame. Owner will build.

**Residence and Store (alts. and add.)**, 5941 Lansdowne avenue, \$6,000. Architect, private plans. Owner, Walter O. Stagmyer, on premises. Brick, 2 stories, 15x22 feet, general alterations. Owner will build.

**Residences (8)**, Jackson and Magee streets, Philadelphia, \$4,000 each. Architect, private plans. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x37 feet, hot air heat, electric light. Owner will build.

**Service Stations (2)**, Broad and Montgomery and Broad and Rising Sun avenue, \$3,500 each. Owners, Sun Oil Company, Finance Buidig, Philadelphia. Hollow tile, brick, 1 story, 13x19 feet. Owners will build.

**Residences (10)**, West side Seventh street, South of Cheltenham avenue, \$4,000 each. Architect, private plans. Owner, A. Stanley Ulrich, 1529 Snyder avenue, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences and Stores (2)**, Forty-ninth and Brown and Forty-ninth and Reno streets.

**Residences (8)**, Forty-ninth and Brown streets, Philadelphia, \$52,000. Owner, S. Eisenberg, 3849 Cambridge street, Philadelphia. Brick, 2 stories, (2) 16x50 feet, (4) 16x30 feet, 13x17 feet, and (4) 15x38 feet, 12x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence**, Northeast Corner Harrison and Large streets, \$12,000. **Residences (18)**, Erringer street, North of Clapier street, \$108,500. **Residences (13)**, Broad street, South of Seventy-first avenue, \$78,500. Owner, B. Zorochoff, 3045 Weikel street, Philadelphia. Brick, 2 stories, (1) 25x72 feet, (2) 16x55 feet, (17) 16x50 feet, and (12) 16x20 feet, 20x30 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (19)**, Second, Duncannon avenue and Rubican avenue, \$69,000. Owners, Fishman, Fort & Rosen, 2011 South Fifth street, Philadelphia. Brick, 2 stories, (2) 16x48 feet, (17) 15x29 feet, 10x10 feet, slag roof, hardwood floors, electric work. Owners will build.

**Administration Building**, Richmond street and Wheatsheaf Lane. Architect, private plans. Owners, Department of Public Works, Bureau of Surveys. Lowest bidders: S. Sidney Lewis, Real Estate Trust Building, \$59,178; Kober Const. Co., 34 South Seventeenth street, Philadelphia, \$63,777. Electric, Elias Nusbaum & Brothers, 2023 Sansom street, \$2,348. Heating, A. McClintock, 1020 Callowhill street \$2,523.

**Main Sewer**, Johnson street, from Marvine

street to Thirteenth street. Lowest bidder: Lombardi & Co., Lincoln Building, Philadelphia, \$16,935.

**Residences (26)**, Reese street, Annsbury and Wingohocking streets, \$105,000. Owner, David Sokolow, 3130 Clifford street, Philadelphia. Brick, 2 stories, (24) 16x30 feet and (2) 17x30 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (2)**, North side Eastwick avenue, East of Eighty-second street, \$5,500 each. Architect, private plans. Owner, A. Anslander, Eighty-fifth and Tincum avenue, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, hardwood floors, tile work, hot water heat, electric light. Owner will build.

**Residence**, 8116 Craig street, Philadelphia, \$3,500. Architect, private plans. Owner, J. Lanzo, on premises. Stone, 2 stories, 14x40 feet hot water heat, electric light. Owner will build.

**Asphalt Paving**, Schedule A, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works, City Hall, Philadelphia. Lowest bidders:

Abbotsford Road, from Wissahickon avenue to McKean street, \$21,744; Abington avenue, from Crefeld street to Roanoke street, \$3,605.40; Annsbury street, from Rising Sun avenue to Palethorpe, and Palethorpe, from Thelma street to Wingohocking, \$8,763.21. Eastern Paving Co., Lincoln Building, Philadelphia.

Bonsall street, from McKean street to Snyder avenue, \$3,752.71. Barber Asphalt Paving Co., Land Title Building, Philadelphia.

Boyer street, from Heines street to Cheltenham avenue; Rittenhouse street, from McMahon street to Ardleigh street; Sprague street, from Haines to Price street, \$42,671.83. Eastern Paving Company, Lincoln Building, Philadelphia.

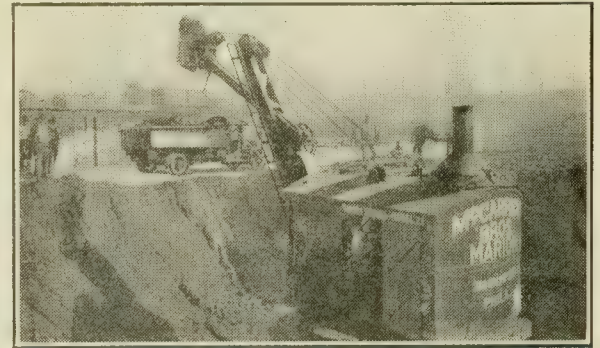
Cresheim Valley Drive, from Springfield avenue to Willow Grove avenue, \$9,671.83. Eastern Paving Company, Lincoln Building, Philadelphia.

Delphine street, from American street to Third street, \$3,851. Union Paving Co., Thirtieth and Locust streets, Philadelphia.

Ella street, from Rockland to Ruscomb; Ruscomb street, from Ella street to B street, \$3,952.66. Eastern Paving Co., Lincoln Building, Philadelphia.

Ellet street, from McCallum street to Greene street, \$10,631.60; Henley street, from Manheim street to Hansbury street, \$4,762.60. Union Paving Company, Thirtieth and Locust streets, Philadelphia.

Kingsessing avenue, from Sixty-fifth to Sixty-sixth street, \$5,160; Kingsessing avenue, from Fifty-fifth to Fifty-sixth street, \$7,327.66; Miller street, from Indiana avenue



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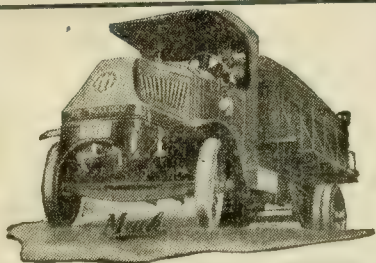
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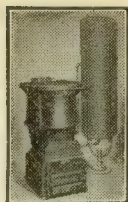
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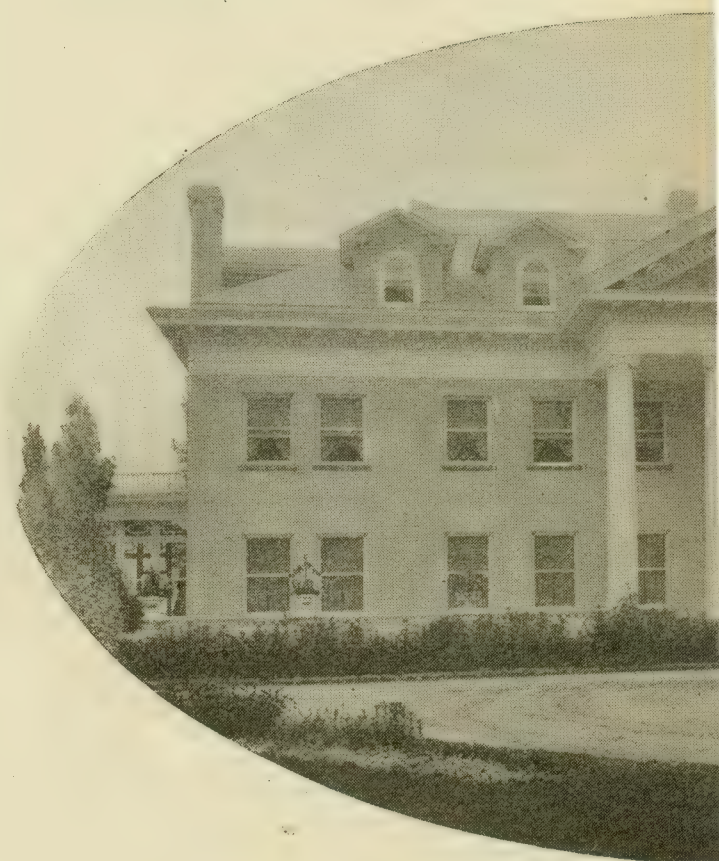
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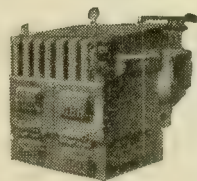
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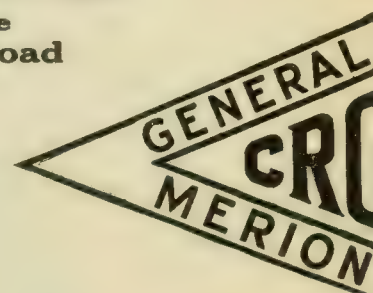
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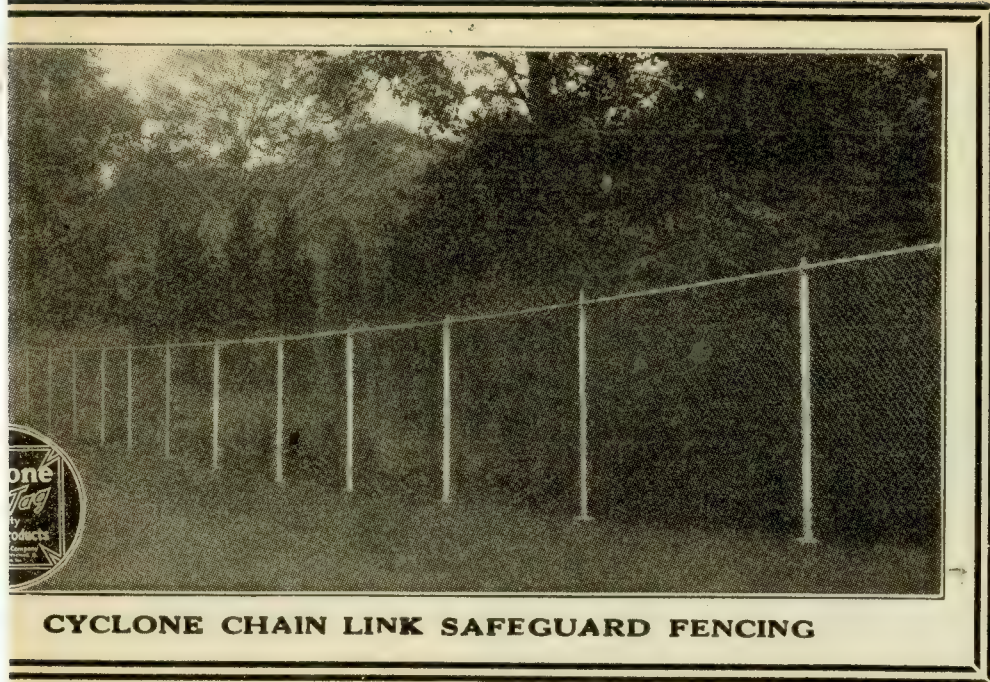
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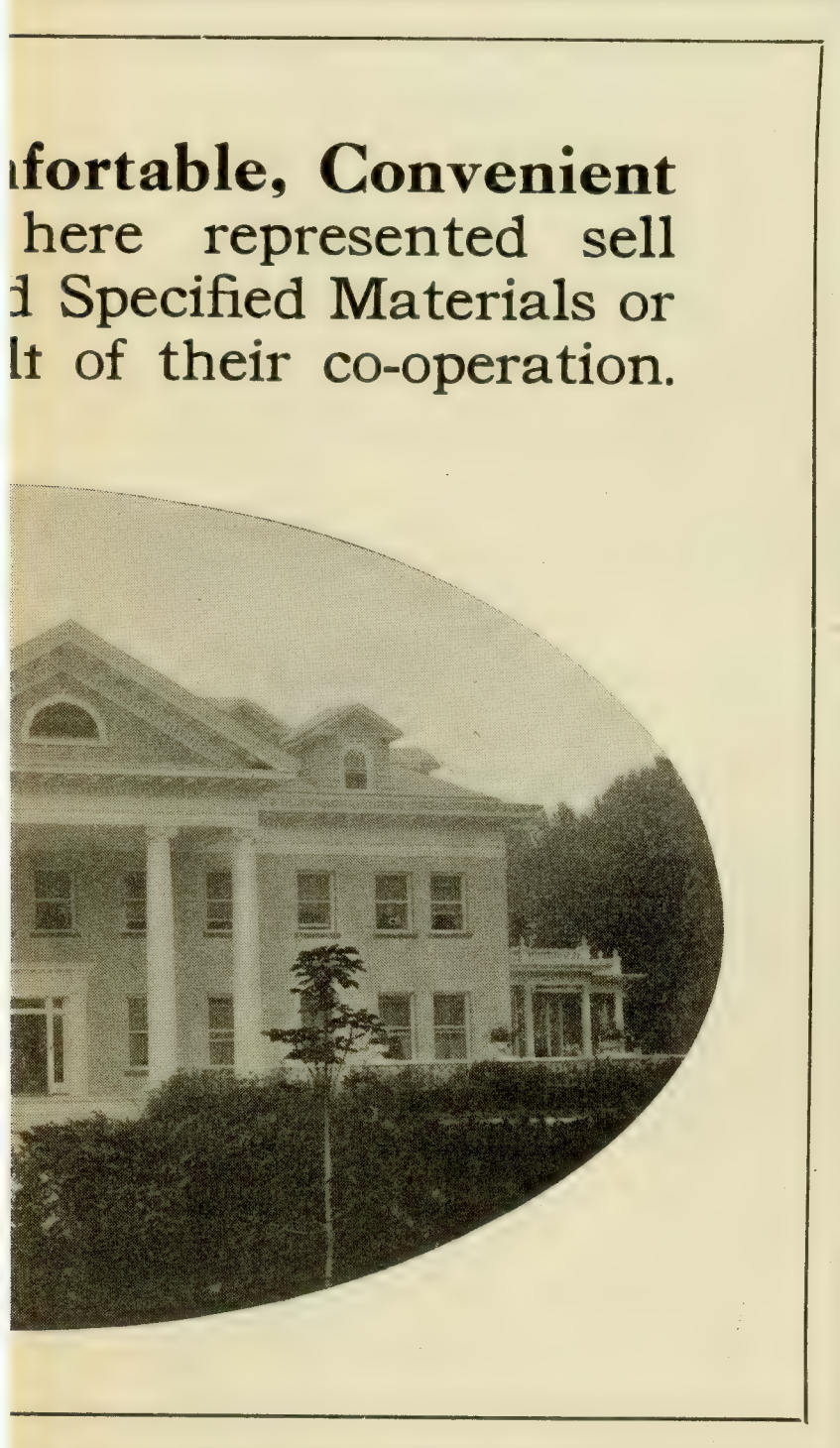
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Rising Sun avenue, from Annsbury street to Wyoming avenue; Mascher street, from Rising avenue to Wyoming avenue, \$18,163.60. Eastern Paving Company, Lincoln Building, Philadelphia.

Sasom street, from Forty-ninth to Fiftieth, \$3,162.63. Union Paving Co., Thirtieth and Locust streets, Philadelphia.

Sparks street, from Ogontz to Twentieth, \$4,417.62; Sydenham street, from Olney avenue to Chew street, \$2,136; Sixteenth street, from Sixty-eighth avenue to Haines street, \$4,562.70; Twentieth street, from Godfrey avenue to Limekiln Pike, \$5,061.63. Eastern Paving Co., Lincoln Building, Philadelphia.

Thirtieth street, from Tasker street to Morris street, \$5,631.73. Union Paving Co., Thirtieth and Locust streets, Philadelphia.

Sixty-sixth street, from Paschall avenue to Woodland avenue, \$4,017; Sixty-seventh avenue, from Eighteenth street to Ogontz avenue, \$6,079.29. Eastern Paving Co., Lincoln Building, Philadelphia.

Schedule B, vitrified block paving. Spencer street, from Norwood avenue to Twenty-first street, \$3,771.28. Allen J. Anderson, 5907 Chew street, Philadelphia.

Schedule C, furnishing and applying bituminous dust layer. Benjamin Foster Company, Twentieth and Venango streets, Philadelphia.

Schedule D, removal of buildings in line

of Spring Garden street, between American street and Delaware avenue, \$7,688. Provident House Wrecking Co., 133 Greenwich street, Philadelphia.

Schedule E, dredging Schuylkill River, South of Spring Garden street. American Dredging Co., Mariners' & Merchants' Building, Philadelphia.

Schedule G, furnishing and delivering fuel oil storage tanks, \$47,265. J. B. McHugh, Jr.,

Commercial Trust Building, Philadelphia.

Schedule H, furnishing and delivering steel fabric reinforcement, \$2,834. Pearce Fire-proof Company, 1911 North Second street, Philadelphia.

Schedule I, furnishing and delivering ready mixed concrete, \$22,680. West Jersey Sand & Supply Co., Beach and Marlboro streets, Philadelphia.

## Contracts Awarded

Scope of Contract and Successful Bidders; “Inside” Information for the Material Man and Interior and Exterior Fitter.

**Factory Building**, Swanson, Water, South and Bainbridge streets, \$750,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, American Bag and Paper Co., Second and Vine streets, Philadelphia. Brick, cut stone, steel and reinforced concrete, 6 stories and basement, 88x276 feet, slag roof, cement, pine and maple floors, hollow tile, dampproofing, terra cotta, iron work, floor hardener, bond, rolled steel sash and doors, tile work, metal lath (heating, lighting, plumbing and elevators reserved). Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

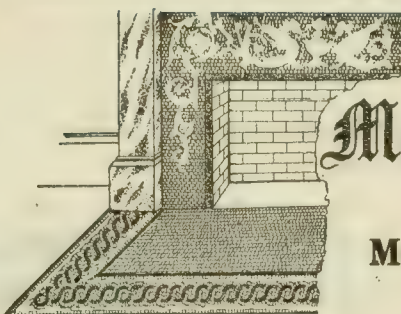
**Hotel** (Belmont), location withheld, Cen-

tral Philadelphia, \$7,000,000. Architect, private plans. Owners, Le Trianon Hotel & Restaurant Co., care of N. De Wilde, president, 1520 Spruce street, Philadelphia. Reinforced concrete and steel, limestone, rough tex brick and terra cotta, 26 stories, approximately 100x260 feet, will contain 1500 rooms and 1500 baths, concrete and tile roof, hardwood, composition, tile and marble floors, hollow tile, metal lath, elevators, roof ventilators, metal window guards, iron work, fire doors, rolled steel sash and skylights, steam heating, electric lighting. Preliminary plans completed. Contract awarded to George F. Pawling & Co., 1432 South Penn Square, who will be ready for sub-bids in September. Working plans in progress.

**Bank Building**, Eleventh and Lehigh avenue, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street. Owners, Philadelphia Saving Fund, Seventh and Walnut streets. Stone, brick and steel, 1 story and basement, copper roof, tile and marble work, metal window guards, bank fixtures. Contract awarded to George A. Fuller Co., Morris Building.

**Bank Building**, Broad and McKean streets, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Philadelphia Saving Fund Co., Seventh and Walnut streets. Brick, steel and stone, 1 story and basement, 40x140 feet, copper roof, tile and marble work, bank fixtures, metal window guards. Contract awarded to George A. Fuller Co., Morris Building.

**Residence and Garage**, Johnston street and Wissahickon avenue. Architect, Samuel D. Hawley Co., 30 South Seventeenth street, Philadelphia. Owner, C. O. Timanus, 212 South Fourth street, Philadelphia. Stone, 3 stories, 27x52 feet, slate roof, hot water heating, electric light, hardwood floors, tile work, plumbing, mill work. Contract award-



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ed to Merion Const. Co., 2313 Walnut street.

**Store (alts. and add.),** 1009-1011 Market street, \$14,000. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, F. & W. Grant Co., on premises. General alterations, removing walls, size of building, 40x200 feet, new bulks, maple and terrazzo floors, electric work, sheet metal work, marble and tile work, plate glass, leaded art glass, mill work, painting, plastering, brick work. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

**Residence (alts.),** 1912 Panama street, Philadelphia. Architects, William F. B. Koelle Co., C. L. Borie and G. W. Pepper, Otis Building. Owner, Mrs. J. R. Mitchell, care of architects. Carpentry, mill work, painting, glazing, electric work, metal lath, plastering, bond, plumbin. Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

**Residence (alts. and add.) (2),** 1925-27 Panama street, \$18,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Charles T. Cresswell, 2122 Locust street, Philadelphia. Brick, steel and stucco, 3 stories and basement, 30x32 feet, slag roof, oak and pine floors, electric lighting, metal lath, bond, iron work (heating reserved). Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

**Athletic Club Building,** Northeast Corner Twentieth and Oregon avenue, \$6,500. Architect, H. Childs Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, Girard Athletic Association, care of architect. Brick, steel and cut stone, 1 story, 32x32 feet, slag roof, cement floors, central heating, electric lighting, metal lath. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Twin Residence,** Twelfth and Summerville streets, Philadelphia, \$14,000. Architect, private plans. Owner, T. Wilkinson, 3639 North Ninth street, Philadelphia. Stone, brick and stucco, 2 stories, 36x55 feet, hot water heating, electric lighting, plumbing, tile work. Contract awarded to A. Nardy & Son, 761 South Thirteenth street, Philadelphia.

**Residence (alts.),** 1204 Melrose avenue, Oak Lane. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, George Wolsten, on premises. Brick work, cut stone, electric work, plumbing, painting, glazing, carpentry, mill work, metal lath, tile work, plastering. Contract awarded to Frank C. Hood Co., 1613 Chestnut street.

**Store and Apartments (alts. and add.),** Southeast Corner Second and Girard avenue. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, W. L. Codville, on premises. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

**Residence (alts. and add.) and Garage,** rear of 315 Cottman street. Architect, private plans. Owner, M. Plunket, on premises. Garage, brick, 1 story, 20x40 feet, slag roof, ce-

ment floors, hot air heating, electric lighting, general alterations. Contract awarded to Frank C. Hood Co., 1613 Chestnut street.

**Residence and Store,** 4435 Frankford avenue, Philadelphia, \$28,000. Architect, Herman Kline, Bulletin Building, Philadelphia. Owner, Harry Krawitz, 4431 Frankford avenue, Philadelphia. Brick, 1 story, 26x21 feet, 2 stories, 26x14 feet, and 3 stories, 26x80 feet, steam heating, electric lighting, oak and pine floors. Contract awarded to John F. Davies, 1021 Herbert street, Philadelphia.

**Residence (alts. and add.),** 506 West Upsal street, Germantown. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, M. Pollin, on premises. Rear addition, 1 story, 15x15 feet, new sleeping porch, slate roof, electric work. Contract awarded to Alex. Laub, 812 West Wyoming avenue.

**Building (alts. and add.),** 238 South Tenth street, Philadelphia, \$13,500. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Edward J. Cook, on premises. Mansard, fourth floor add., 14x18 feet, general alterations. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Residences (6),** South side Duncannon street, East of Lawrence, \$35,000. Architect, private plans. Owners, Bittner & O'Dea, 5227 North Fifth street, Philadelphia. Brick, 2 stories, (2) 16x58 feet and (4) 15x32 feet, 12x20 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

**Residence,** Southeast Corner Eighty-sixth and Eastwick avenue, Philadelphia, \$5,500. Architect, private plans. Owner, Robert Bell, Eighty-sixth and Harley avenue, Philadelphia. Brick, 2 stories, 16x49 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to John McEnhill, 8432 Eastwick avenue, Philadelphia.

**Garage (alts. and add.),** 6941 York road, Philadelphia, \$5,000. Architect, private plans. Owner, Jennie Kaye, on premises. Stone, 1 story, 20x28 feet, 23x9 feet, cement floors, alterations. Contract awarded to Henry P. Schneider 3713 Old York Road.

**Garage,** West side L street, North of Sedgley avenue, Philadelphia, \$5,000. Architect, private plans. Owner, Ernest Gringer, on premises. Brick, 1 story, 35x90 feet, slag roof cement floors, electric work. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Residence,** 4624 Stiles street, Philadelphia, \$7,500. Architect, private plans. Owner, J. Tyszno, 4622 Stiles street, Philadelphia. Brick,

2 stories, 16x56 feet, slag roof, hardwood floors, electric lighting. Contract awarded to S. Pietrykowski, 3574 Edgemont street.

**Residence,** Northeast Corner Doreas and Bleigh streets, Philadelphia, \$4,000. Architect, private plans. Owner, Walter Forrest, Dorcas street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to Herman Gleim, 1937 Briggs street, Philadelphia.

**Residence,** 2151 E. York st., Philadelphia, \$10,00. **Garage,** 2150 E. Boston ave. Architect, private plans. Owner, Louis Schaefer, 2418 Frankford avenue, Philadelphia. Brick, 2 stories, 18x33 feet, 14x18 feet, garage, 2 stories, 18x62 feet, slag roof, hardwood and cement floors, electric work. Contract awarded to Robert Beatty & Brothers, 2321 East Fletcher street.

**Residence,** West side Verree Road, South of Naple street, \$8,000. Owner, William Adair, Verree Road and Afton street, Philadelphia. Brick, 2 stories, 25x33 feet, hardwood floors, hot water heat, electric light, tile work. Contract awarded to M. Worrall, Andalusia, Pa.

**Residence,** East side Oxford avenue, South of Watson street, Philadelphia, \$5,400. Architect, private plans. Owner, Otto Moore, Cheltenham, Pa. Frame, 2 stories, 19x10 feet, 26x40 feet, and 1 story, 8x7 feet, electric lighting, tile work, hardwood floors. Contract awarded to George Krewson, Cheltenham, Pa.

**Residence,** North side Oakmont street, East of Verree Road, \$5,700. Architect, private plans. Owner, George Naulty, 2004 North Leithgow street, Philadelphia. Frame, 2 stories, 24x26 feet, hardwood floors, electric light, tile. Contract awarded to Evert & Goodnow, Fox Chase, Philadelphia.

**Store (alts.),** 4618 North Broad street, Philadelphia, \$2,500. Owner, H. Daroff, 726 Market street, Philadelphia. General alterations. Contract awarded to A. Laub, 812 West Wyoming avenue, Philadelphia.

**Residence and Store (alts.),** 2962 North Twenty-second street, Philadelphia, \$2,300. Owner, S. Semless, 2958 North Twenty-second street, Philadelphia. General alterations. Contract awarded to F. Cohen, 907 Vine street, Philadelphia.

**Manufacturing Building (alts. and add.),** 127-29 Bread street, \$8,000. Architect, private plans. Owners, C. B. Sorter Co. Brick, 2 stories, 23½x62 feet, general alterations. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

**Residence,** South side Comly Road, West of Decatur Road, \$4,000. Architect, private

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plans. Owner, Clifford Knight, Comly Road, West of Decatur street, Philadelphia. Frame, 2 stories, 28x28 feet, hardwood floors, electric lighting. Contract awarded to J. H. Page & Son, Cornwells, Pa.

**Building (alts.),** Northwest Corner German-town and Girard avenues, \$3,500. Architect, private plans. Owner, George F. Degelman, Northeast Corner Third and Girard avenue, Philadelphia. General alterations. Contract awarded to Frank A. Stoll, 170 Master street, Philadelphia.

**Residence and Store (alts. and add.),** 1334 East Passyunk avenue, \$2,600. Architect, private plans. Owner, G. Cimino, on premises. Brick, 2 stories, 13x12 feet, general alterations. Contract awarded to N. Alterelli, 902 South Eighth street, Philadelphia.

**Residence and Store (alts. and add.),** 2665 Orthodox street, \$2,600. Architect, private plans. Owner, S. Paliesjkewicz, on premises. Brick, 2 stories add., 15x18 feet, general alterations. Contract awarded to S. Pietrykowski, 3074 Aramingo avenue.

**Residence (alts. and add.),** 1339 Shunk street, Philadelphia, \$2,600. Owner, William Silverman, 1020 South Second street, Philadelphia. Brick, 1 story, 14½x11 feet, general alterations. Contract awarded to Joseph Keller, 520 Mifflin street, Philadelphia.

**Store (alts.),** 1220-22 Market street, Philadelphia, \$6,900. Owners, Hardwick, Magee & Co., on premises. General alterations, carpentry, mill work, painting, plastering. Contract awarded to Smith-Hardican Co. 1809 Callowhill street.

**Residence and Store (alts.),** 5532 Woodland avenue, \$2,000. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. General alterations. Contract awarded to Dickinson Const. Co., 1118 Dickinson street.

**Open Sheds (2),** Nineteenth and Hilton streets, Philadelphia, \$3,000 total. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Frame, 1 story, 32x40 feet. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Building (alts. and add.),** 1105 Chestnut street, Philadelphia. Architect, private plans. Owners, Story & Clark, on premises. New mezzanine floor, general alterations. Contract awarded to Heed & Gross, 1613 Chestnut street.

**Workshop,** Northeast Corner Island Road and Suffolk avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Charles S. Klotz, 7901 Eastwick avenue, Philadelphia. Brick, 1 story, slag roof, pine floors, electric lighting. Contract awarded to Thomas M. Cockerill, 2242 St. James Terrace.

**Store and Residence (alts. and add.),** 3718 North Broad street, \$3,000. Architect, C. W.

Gilmore, 10 South Eighteenth street, Philadelphia. Owner, Owen Smith, on premises. Brick, 3 stories, 14x18 feet and 9x18 feet, general alterations. Contract awarded to A. Raymond Raff Cont. Co., 1635 Thompson street.

**Building (alts.),** 1405 West York street, Philadelphia, \$2,000. Architect, private plans. Owner, A. Winderman, 2513 North Thirty-third street, Philadelphia. General alterations. Contract awarded to Morris Karsh, 2530 North Patton street, Philadelphia.

**Warehouse (alts.),** 429 Arch street, Philadelphia, \$3,000. Architect, private plans. Owners, Smith, Kline & French, on premises. General alterations. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Garage,** 3023-27 Emerald street, Philadelphia. Architect, private plans. Owner, William Lodge, 2001 East Stella avenue, Philadelphia. Brick, 1 story, 43x18 feet, slag roof, cement floors, electric light. Contract awarded to F. Dietrich, 1823 East Hilton street, Philadelphia.

**Residence and Store (add.),** Southeast Corner Pechin street and Leverington avenue, Philadelphia, \$2,000. Architect, private plans. Owner, William Schwinger, on premises. Brick, second story add., slag roof, electric work, pine floors. Contract awarded to William Lintz, 239 Roxboro avenue, Philadelphia.

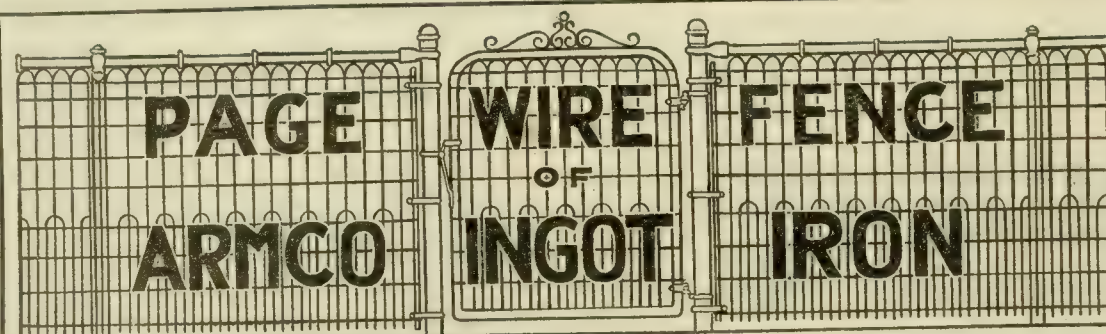
**Residences (2),** West side Dungan Road, South of Bleigh, \$3,500 each. Architect, private plans. Owner, Harry Treude, Dungan Road, Philadelphia. Brick, 2 stories, 16x35 feet, hot air heating, electric lighting. Contract awarded to Herman Gleim, 1937 Briggs street, Philadelphia.

**Residence and Store (alts.),** Southwest Corner Fifty-seventh and Walnut streets, \$3,200. Architect, private plans. Owner, Joseph Elvanian, on premises. General alterations. Contract awarded to Harry Devlation, 5957 Irving street, Philadelphia.

**Residence (add.),** 3924 Chestnut street, Philadelphia, \$3,000. Owner, A. S. Logan, 247 South Eighteenth street, Philadelphia. Brick, fourth story add., 20x50 feet, slag roof, electric work. Contract awarded to Edward M. Canny, 6021 Sansom street, Philadelphia.

**Store and Storage (add.),** 724 Sansom street, Philadelphia, \$3,000. Architect, private plans. Owner, George T. Bisel, on premises. Brick, 5 stories add., 18x10 feet, pine floors, slag roof. Contract awarded to J. Nichonsky, 242 Morris street, Philadelphia.

**Residence (add.),** Northwest Corner Dauphin and Sydenham streets, \$2,800. Architect, private plans. Owner, William Gaffigow, on premises. Brick, 2 stories add., 16x10 feet, slag roof, pine floors. Contract awarded to



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Edward M. Canny, 6021 Sansom street, Philadelphia.

**Residence and Store (add.)**, 2828 North Twenty-second street, Philadelphia, \$2,000. Architect, private plans. Owners, Fuiffica & Co., 2121 West Cambria street, Philadelphia. Brick, 2 stories, 14x28 feet, slag roof, pine floors. Contract awarded to James Soles, 3045 North Twenty-third street, Philadelphia.

**Store and Storage Building**, 320 South Front street, Philadelphia, \$7,000. Architect, private plans. Owner, Jacob Miller, 324 South Front street, Philadelphia. Brick, 3 stories, 19x24 feet, slag roof, electric lighting. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

**Residence**, North side Fanshawe street, West of Oakley street, \$6,500. Architect, private plans. Owner, William Bowman, 3463 North Hope street, Philadelphia. Frame, 2 stories, 22x30 feet, 12x12 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to W. C. Johnson, 4601 Ella street, Philadelphia.

**Residence and Store (alts.)**, 1634 Ridge avenue, Philadelphia, \$4,300. Architect, private plans. Owner, Samuel Weiss, 5433 Larchwood avenue, Philadelphia. General alterations. Contract awarded to M. Glasshofer, 529 Morris street, Philadelphia.

**Residence (alts.)**, 1005 Christian street, Philadelphia, \$4,000. Architect, private plans. Owner, Orazio Lirastio, 933 Christian street, Philadelphia. General alterations. Contract awarded to V. Cerasoli, 1231 Christian street, Philadelphia.

## Pennsylvania Construction News

**Bank (alts.)**, Hanover, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, People's Bank, care of A. Nissly, Hanover, Pa. Interior equipment, vault, bronze work, tile and marble work. Plans in progress.

**Post Office**, Phoenixville, Pa. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Owners taking bids due May 22nd at 3 P. M. Drawings and specifications may be obtained from custodian of site of Phoenixville, Pa., or at Treasury Department, Washington, D. C.

**Bank**, Dover, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Dover National Bank, Mr. Lauer care of architect. Brick, Indiana limestone, 1 story and mezzanine, 30x64 feet, slag roof, tile or mineral floors, vapor heat, electric light, metal lath, bronze work, bank fixtures, metal window guards. Architect taking bids due May 9th.

**Bank (alts. and add.)**, Williamstown, Pa., \$40,000. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Williams Valley Bank, care of architects. Brick, 2 stories, 22x27 feet, vapor vacuum heat, electric light, tile floors, general interior alterations, tile and marble work, vault, bronze work, bank fixtures. Bids due May 3rd. (Note date.)

**Garage, Apartment and Show Room**, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, R. C. Keller Motor Co., 325 East Market street, York, Pa. Terra

cotta, brick, reinforced concrete, 1 and 2 stories, 83x230 feet, slag roof, concrete and hardwood floors, hollow tile, blower system heating, electric lighting, metal lath, tile work, rolled steel sash, fire doors, waterproofing and dampproofing, floor hardener, ornamental iron work. Architect taking revised bids.

**Residence**, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, F. R. Zinn, care of architect. Stucco, 2½ stories, 35x25 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Theatre and Store (alts. and add.)**, Gettysburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owner, K. Lynch, Gettysburg, Pa. General interior alterations, pine floors, plate glass, plastering, metal ceilings. Plans in progress. Owner will take sub-bids.

**Residence**, Elmwood, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Harry Ness, Elmwood, Pa. Cinder block, 2½ stories, 28x35 feet, 10x23 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Owner will build.

**Residence**, Wynnefield, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, B. Wolinsky, care of architects. Stone and stucco, 2 stories, 50x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architects will be ready for bids in one week.

**School**, Rosemont, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Thomas' Roman Catholic Church of Villa Nova, Rev. J. J. Hasson, rector, Rosemont, Pa. Brick and steel and terra cotta, 2 stories and basement, 50x150 feet. Preliminary plans in progress.

**Store Building (alts.)**, Shamokin, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, O. C. Leader & Son, Shamokin, Pa. Castone front, 3 stories, plastering, built-up roof, parquetry and tile floors, ornamental plastering, iron work, American walnut interior finish, flag pole. Plans in progress.

**Bungalows (30)**, Highland Park, Pa., \$100,000. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Lehigh Real Estate Co., 34 South Fifth street, Allentown, Pa. Brick, 1½ stories, 20x45 feet, slate and shingle roof, wood floors. Architect taking bids.

**Manufacturing Building**, Marten street, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Frank Banko, 438 Wyandotte street, Bethlehem, Pa. Brick, 2 stories, 40x85 feet, slag roof, wood and concrete floors, steam heat, electric light, steel sash, probably elevators, floor hardener. Architect ready for bids.

**Residences (8)**, Goepp and Main streets, Bethlehem, Pa., \$40,000. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. H. Weiner, 39 West Broad street, Bethlehem, Pa. Brick, 2 stories, 40x140 feet, slag roof, wood floors, steam heat, electric light. Plans in progress.

**Dormitory Bungalows (3) and Mess Bungalow**, Bradford Hills, Pa. Architect, Wesley Leshner Blithe, 608 Chestnut street, Philadelphia. Owners, Children's Country Week Association, Wesley Bldg., Phila. Frame, (3) 58x33 feet and 72x45 feet, shingle roof, pine

floors, electric light, bond, iron work. Architect taking bids due May 3rd at noon.

**Residence and Garage**, Wayne, Pa. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Joseph Matz, 935 Sansom street, Philadelphia. Brick, 3 stories, 27x62 feet, slate roof, hot water heat, electric light, tile work, hardwood floors, ornamental iron work. Architect taking bids due May 15th.

**Parish House**, Branchtown, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, House of Prayer, Branchtown. Stone and steel, 62x36 feet, slag roof, composition and pine floors, iron work, steam heat, electric light. Architect taking bids due May 4th.

**Lodge Building**, South Fourth street, Easton, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, L. O. O. M., Easton, Pa. Reinforced concrete, brick, steel and castone, 2 stories and basement, 60x158 feet, Barrett slag roof, cement and gypsum block and composition floors, hollow tile, dumb waiter, roof ventilators, waterproofing, iron work, floor hardener, bond, hollow metal doors, copper skylights, hollow metal sash, tile, marble and terrazzo, metal lath, steam heat, electric light. Architect taking bids due May 8th.

**Residence**, Cynwyd, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, Charles L. Roach, 410 South Broad street, Philadelphia. Stone, brick and plaster, 2½ stories, 70x32 feet, Spanish tile roof, oak, pine and composition floors, electric lighting, metal lath, iron work. Architects taking bids due May 4th.

**Residence**, Springfield, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Mrs. P. G. McGillen, Nineteenth and South streets, Philadelphia. Frame and stucco, 2 stories, 25x38 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Owner will take bids in one week.

**Bungalow**, Manoa Heights, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, George Brown, Manoa Road, Manoa Heights, Pa. Hollow tile and stucco, 1½ stories, 28x48 feet, shingle roof, hardwood floors, hot water heat, electric

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**School**, Reading, Pa. Architect, E. Z. Scholl, 136 Robeson street, Reading, Pa. Owners, Lower Alsace Township School Board, G. J. Gule, secretary, Stoney Creek Mills, Berks County, Pa. Brick, 6 rooms. Preliminary plans in progress.

**School**, Frackville, Pa., \$150,000. Architect, E. Z. Scholl 136 Robeson street, Reading, Pa. Owners, Borough of Frackville, Frackville, Pa. Brick, 12 rooms, steam heat, electric light, slag roof hardwood floors (heating and electric work reserved). Preliminary plans in progress.

**Fraternity House**, Gettysburg, Pa. Architect, Fred A. Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, Phi Delta Theta, Dr. J. Meisenholder, Hanover, Pa. Stone and frame, 2½ stories, 40x80 feet, shingle roof, hardwood floors, steam heat, electric light. Plans in progress.

**Factory (add.)**, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, C. Spang, care of architect. Brick, 2 stories, 14x50 feet, composition roof, maple floors, metal lath, vapor heat, electric light, rolled steel sash and skylights, roof ventilators. Architect will be ready for bids in one week.

**Apartments (4), Garages (13)**, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Mr. Rhoades, care of architect. Brick, 3 stories, 20x100 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Will be ready for bids in one week.

**Store (alts.)**, Pottsville, Pa. Architect, F. A. Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, George Bright Hardware Co., 109 South Centre street, Pottsville, Pa. New front, vapor heat, plate glass, hardwood floors, terrazzo work, plumbing. Architect will be ready for bids May 8th.

**Apartment House**, Lansdowne, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, name withheld. Brick, hollow tile and stucco, 3 stories and basement, 125x56 feet, slag roof, hardwood floors, terra cotta, iron work, cement work, tile work, electric lighting, hot water or vapor heating. Plans in progress. Architect will be ready for sub-bids in two weeks.

**Residences (9)**, Lansdowne, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, name withheld. Stone, brick and hollow tile and stucco, 2½ stories, 25x36 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Architect will be ready for sub-bids in two weeks.

**Residence**, Wernersville, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Ulysses A. Lamm, Wernersville, Pa. Brick, 2½ stories, 24x26 feet, shingle roof, pine floors, hot air heat, electric light. Owner taking bids.

**Residence**, Leesport, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, O. E. Mengel, Leesport, Pa. Brick, 2½ stories, 24x25 feet, shingle roof, pine floors, electric lighting. Owner will build.

**Bank, Store and Office Building**, West Front street, Berwick, Pa. Architect, F. Arthur Rianhardt, Masonic Temple Building, Williamsport. Owners, Berwick Savings & Trust Co., J. J. Meyers, chairman, Building Committee, Berwick, Pa. Brick, stone, 1 story and basement, 50x80 feet. Owners taking bids.

**Church (alts.)**, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, St. John's Reformed Church, Rev. T. H. Leinbach, 136 Clymer street, Reading, Pa. General interior alterations, plumbing, steam heating, leaded glass, ornamental plaster. Owners taking bids due May 4th.

**Twin Residence**, Seventeenth and Mineral

Spring Road, Reading, Pa. Architect, Warren S. Heiny, 7 South Fourth street, Reading, Pa. Owners, J. Yohee and A. Blumberg, 14 South Seventh street, Reading, Pa. Stucco, hollow tile, 2½ stories, 70x35 feet, tile roof, hardwood floors, hollow tile, hot water heat, electric light, metal lath, tile and marble work. Owner taking bids.

**School**, Pringle, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Pringle, T. M. Gaugh, Pringle, Pa. Architect will take revised bids about latter part of May.

## Pennsylvania Contracts Awarded

**Garage**, Lansdowne, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, J. Fleming, Lansdowne, Pa. Brick, 1 story, 25x40 feet, tin roof, cement floors, hot water heat, electric light. Contract awarded to Eugene Powell, Lansdowne, Pa.

**Stores and Apartments (4)**, Baltimore street, Hanover, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, C. N. Myers, 305 Baltimore street, Hanover, Pa. Brick, 3 stories, 80x100 feet, composition roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights, store fixtures, waterproofing, terra cotta, dampproofing. Contract awarded to O. H. Hostetter, Hanover, Pa.

**Club (alts. and add.)**, Front street, Harrisburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, Civic Club, care of architects. Stucco, timber, 2 stories, 30x58 feet, tile roof, hardwood floors, central steam heating, electric lighting. Contract awarded to Peter Hurst, Harrisburg, Pa.

**Store and Apartment**, 22 South Fourth street, Harrisburg, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owner, Mr. Silvert, care of architects. Brick, 3 stories, 20x105 feet, slag roof, pine floors, city heating, electric lighting, tile work, plumbing. Contract awarded to M. Gettys, Harrisburg, Pa., who will build on percentage basis.

**Fraternity Building**, Swarthmore, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Delta Tau, Swarthmore College, Swarthmore, Pa. Stone, cut stone and concrete, 2 stories, 44x48 feet, slate roof, cork brick, oak and pine floors, dumb waiter, iron work, bond, terrazzo work, metal lath, hot water heating, electric lighting. Contract awarded to McNeill Valentine Co. 841 North Broad street, Philadelphia.

**Lodge Building**, Swarthmore, Pa. Architects, Karcher & Smith, 34 South Seventeenth street Philadelphia. Owners, Phi Sigma Kappa, Swarthmore, Pa. Brick, cut stone and steel, 2 stories, 40x26 feet, slate roof, oak and pine floors, waterproofing, terra cotta, iron work, vapor heating, electric lighting, metal lath, terrazzo. Contract awarded to McNeill Valentine Co., 841 North Broad street, Philadelphia.

**Hotel (alts. and add.)**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Ardmore Hotel Co., William J. Armstrong, Ardmore, Pa. Brick and steel, fireproofing, hardwood floors, plate glass, metal ceilings, metal window sash, leaded transoms, plate glass, mirrors, terrazzo floors, hollow metal sash. Contract awarded to Merion Const. Co., 2313 Walnut street.

**Dye House and Power House**, Lansdale, Pa. Architects, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners,

Norristown Hosiery Mills, Norristown, Pa. Brick and steel, 1 story, 64x54 feet and 48x34 feet, slag roof, cement floors, rolled steel sash, bond, iron work, cold water painting (floor hardener separate bid). Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Building**, Mt. Carmel, Pa. Architects and engineers, William Steele & Sons Co., 219 North Broad street, Philadelphia. Owners, Mt. Carmel Item, Mt. Carmel, Pa. Reinforced concrete, 3 stories and basement, 50x50 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash, iron work. Contract awarded to George H. Keefer, Mt. Carmel, Pa.

**Garage**, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street. Owner, T. P. Ward, Ridley Park, Pa. Frame, 1½ stories, 36x23 feet, shingle roof, cement floors. Contract awarded to Pomeroy Const. Co., 1609 Ranstead street.

**Residence (alts.)**, Jenkintown, Pa. Architect, Albert F. Schenck, Real Estate Trust Building. Owner, Joseph Clements, Jenkintown, Pa. Shingle roof, hardwood floors, electric lighting, tile work, plastering, painting, glazing, iron work (heating, plumbing separate bids). Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

**Garage**, Wynnewood, Pa. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owner, Robert Steel, 6650 Germantown ave., Phila. Stone and plaster, 1 story, 32x25 feet, shingle roof, cement and pine floors, roof ventilators, terra cotta, vapor vacuum heating, electric lighting. Contract awarded to F. B. Davis & Son, Inc., 240 North Sixteenth street, Philadelphia.

**Residences (4)**, Wayne and Narberth avenues, Narberth, Pa. Architect, private plans. Owner, W. Nagle, Narberth, Pa. Hollow tile and stucco, 2 stories, 32x36 feet, shingle roof, hot water heat, electric light, hardwood floors, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

**Residences (2)**, Cricket avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Merion Const. Co., 2313 Walnut street, Philadelphia. Hollow tile and stucco, 2 stories, 32x36 feet, shingle roof, hot water heat, electric light, hardwood floors, tile work. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

**Residence and Garage**, Bryn Mawr, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, William Roy Smith, Bryn Mawr, Pa. Stone and frame, 2½ stories, 46x27 feet and 13x21 feet, shingle roof, oak and pine and cement floors, tile work, bond, hot water heat, electric lighting. Contract awarded to J. H. Hinkle Co., 326 South Twenty-fourth street, Philadelphia.

**Garage**, rear, Cadwalader street, near Church Road, Elkins Park, Pa. Architect, private plans. Owner, W. A. Writh, on premises. Reinforced concrete and steel, 1 story, 12x24 feet, reinforced concrete roof, cement floor, cement porch, macadam driveway, heating and lighting extensions. Contract awarded to Frank C. Hood & Co., 1613 Chestnut street, Philadelphia.

**Grand Stand and Lockers**, Athletic Field, Reading, Pa., \$32,287. Architect, A. S. Smith, Berks County Trust Building, Reading, Pa. Owners, School District of Reading, Oscar B. Heim, secretary, Seventh and Washington streets, Reading, Pa. Concrete, 1 story, 50x26 feet, concrete floors, hollow metal skylights. Contract awarded to George Meinholtz, Baer Building, Reading, Pa.

**Church and Sunday School**, Lansdale, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Evangelical Lutheran Church, Rev. S. H. Paules, Lansdale, Pa. Stone, 1 story and basement,



50x150 feet, slate roof, composition and hardwood floors, waterproofing and dampproofing, iron work, rolled steel skylights, metal lath, vapor heat, electric light. Contract awarded to Peters & Marshall, Allentown, Pa.

**Church (rebuilding)**, Carlisle, Pa., \$30,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Patrick's Roman Catholic Church, Rev. S. J. Welsh, Carlisle, Pa. Brick, stone trim, 1½ stories, slate roof, hardwood floors, steam heat, electric light, steel truss. Contract awarded to Titzel Const. Co., Harrisburg, Pa.

**Bungalow**, Third and Summit streets, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, G. F. Schultz, care of architect. Brick, 1½ stories, 40x60 feet, slate roof, hardwood floors, electric lighting. Contract awarded to Dominic Maurer & Sons, Glenside, Berks County, Pa.

**Residence**, Malvern, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Malvern Realty Co., Malvern, Pa. Frame and stucco, 2½ stories, 30x40 feet, shingle roof, hardwood and pine floors, hot water heating, tile work. Contract awarded to E. E. Ruth, Malvern, Pa.

**Semi-Detached Residence**, Wynnewood Road, Ardmore Park, Pa. Architect, private plans. Owner, H. H. Harding, 1506 Loudon street, Philadelphia. Frame and stucco, 2½ stories, 33x36 feet, shingle roof, hardwood floors, hot water heating, electric lighting. Contract awarded to Merion Const. Co., 2313 Walnut street.

## New Jersey Construction News

**Residence and Garage**, Atlantic City, N. J. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 52x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Factory (alts.)**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, New Jersey Tobacco Co., 815 Atlantic avenue, Atlantic City, N. J. Brick, 2 stories, 45x90 feet, general alterations. Plans in progress.

**Warehouse (add.)**, Atlantic and Kentucky avenues, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Kensington Carpet Co., on premises. Brick, 1 story add., 33x127 feet, slag roof, pine floors, electric light, hollow tile. Plans in progress. Architect will be ready for bids in a few days.

**Apartment**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yarmov & Shenkman, Guarantee Trust Building, Atlantic City. Brick, 3 stories, 33x80 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work. Owners will build.

**Apartment and Store**, 16 South Georgia avenue, Atlantic City. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, Joseph Di Lasceco, Barber Shop, Hotel Traymore, Atlantic City. Brick, 3 stories, 22x57 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Rectory**, Roebling, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, Hungarian Reformed Church, Rev. J. Ambrus, Roebling, N. J. Brick, 2½ stories, 16x43 feet, slate roof, hot water heat, tile work, electric light. Architect ready for bids.

**School**, Morrisville, N. J. Architects, Fowler & Seaman, Fitzcharles Building, Trenton, N. J. Associate architect, T. B. Stockham, Morrisville, N. J. Owners, Morrisville School

Board, Mr. Taylor, secretary, Morrisville, N. J. Brick, hollow tile, steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine floors (heating, electric work and plumbing reserved), hollow tile, metal lath, safety treads, roof ventilators, rolled steel sash, fire doors, bond, steel stairs, ornamental iron work, metal ceilings, waterproofing and damp-proofing. Owners will be ready for bids in ten days.

**Annex**, Metuchen, N. J. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Joseph's Novitiate, Metuchen, N. J. Brick, cut stone, castone and steel, 3 stories, 105x43 feet, slate roof, composition, cement and pine floors, roof ventilators, metal ceilings, iron work and stairs, floor hardener, bond, kalamein doors, rolled steel sash. Architect taking bids due May 3rd.

**Police Station and Fire House**, Tennessee avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, care of E. L. Bader, City Hall, Atlantic City. Brick, 2 stories, 16x45 feet, add., slate and slag roof, pine floors (plumbing and electric work reserved), metal lath, tile and marble work, copper skylights, kalamein doors, ornamental terra cotta. Architects and owners taking bids due May 10th.

**School (alts. and add.)**, Bordentown, N. J. Architects, Fowler, Seaman & Co., Fitzcharles Building, Trenton, N. J. Owners, Bordentown School Board, Mr. Buchanan, secretary, Bordentown, N. J. Brick, 2 stories, 10x25 feet, tin roof, pine floors (heating, electric work, plumbing reserved). Owners taking bids due May 9th.

**School No. 2 (alts. and add.)**, Bordentown, N. J. Architects, Fowler & Seaman, Fitzcharles Building, Trenton, N. J. Owners, Bordentown School Board, Mr. Buchanan, secretary, Bordentown, N. J. Frame, 1 story, 35x40 feet, ti roof, pine floors (heating, plumbing and electric work reserved). Owners taking bids due May 9th.

**Ice Storage House**, Woodstown, N. J. Architect, William F. Koelle, Twenty-sixth and Oxford streets. Owners, Woodstown Ice & Coal Co., Woodstown, N. J. Brick, 1 story, 42x64 feet, slag roof, cement floors. Owners taking bids.

**Apartment**, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, structural iron, 3 stories, 35x87 feet, slag roof, pine floors, hollow tile, hot water heat, electric light, metal lath, tile work, rolled steel skylights. Architect taking bids due May 6th.

**Church**, Willow street, Trenton, N. J. Architect, R. A. Schuman, 202 West State street, Trenton, N. J. Owners, St. Paul's Zion A. M. E. Church, Rev. I. B. Turner, 304 North Willow street, Trenton, N. J. Stone, brick, 1 story and basement, 46x75 feet, slate roof, hardwood floors, steam heat, electric light, metal lath. Architect taking bids due May 10th.

**Fairview School (alts. and add.)**, Camden, N. J. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Board of Education, Elwood C. Bunting, secretary. Lowest bidders: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, \$141,050, plus \$1,200, deduct \$500; Frank G. Stewart, 1619 Sansom street, Philadelphia, \$143,125, plus \$1,000, plus \$1,128. Heating and ventilating, Camden Heating Co., Camden, N. J., \$17,750. Plumbing and drainage, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, \$5,359. Electric, J. F. Buchanan Co., 1719 Chestnut street, Philadelphia, \$1,868.

The BUILDERS' GUIDE is in its thirty-eighth year of continuous publication.

## New Jersey Contracts Awarded

**Residence**, Edgewood avenue, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Misses Stephens, care of architect. Frame, 2½ stories, 36x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to William Acher, Hollywood Drive, Trenton, N. J.

**Stables (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Castanea Dairy, 234 North Broad street, Trenton, N. J. Brick, 2 stories, 50x60 feet, slag roof, concrete and wood block floors, electric light, rolled steel sash. Contract awarded to William Burton, American Mechanics' Bank Building, Trenton, N. J.

**Stores (2) and Apartments**, Roebling, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Joseph Borsteh, Roebling, N. J. Brick, 2 stories, 34x70 feet, slag roof, hardwood floors, electric light, tile work, plate glass, rolled steel skylights, copper work, metal ceilings. Contract awarded to Patcher & Garr, Trenton, N. J.

**Store and Apartment**, South Broad street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Frank Kielewski, 699 South Broad street, Trenton, N. J. Brick, 2½ stories, 44x80 feet, slag and slate roof, hardwood floors, steam heat, electric light, metal lath, tile work, metal ceilings. Contract awarded to Patcher & Garr, Trenton, N. J.

**School**, Ewing Park, Mercer County, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Ewing Township School Board, C. G. Latham, secretary, care of architect. Brick, 1 story and basement, slag roof, 87x30 feet, pine floors, metal lath, safety treads, roof ventilators, concrete stairs. Contract awarded to Patcher & Garr, Trenton, N. J.

**Cottages (alts. and add.) to Apartment**, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owner, Mr. Asbury, care of architect. Brick, 3 stories, 24x31 feet, slag roof, pine floors, electric light, tile work, partitions, plumbing. Contract awarded to J. Vaughn Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

**Residences (6)**, South Florida avenue, Atlantic City, N. J. Architect, E. Amodio, Segal Building, Atlantic City, N. J. Owner, Charles Camarota, 116 North Chelsea avenue, Atlantic City, N. J. Brick, stucco, 2 stories, 17x50 feet, slate and slag roof, hardwood floors, Arco heating, electric lighting, tile work. Contract awarded to Abrams Const. Co., 2100 Atlantic avenue.

**Municipal Poultry Market**, Atlantic City, N. J. Architect, R. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, Department of Streets and Public Improvements, Atlantic City, N. J. Brick, concrete, steel, 1 story, 212x103 feet, slag roof, cement floors, electric light, metal lath, bond, ornamental iron work. Contract awarded to F. P. Molinara & Co., Chalfont and Pacific avenues, Atlantic City, N. J.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.



## Miscellaneous Construction News

**Grade School**, Elkton, Md. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, Cecil County School Board, care of H. Caldwell, secretary, Elkton, Md. Brick, 2 stories. Sketches in progress.

**Schools (3)**, Cecil County, Md. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, Cecil County School Board, care of H. Caldwell, secretary, Elkton, Md. Brick, 1 story, 3 rooms. Sketches in progress.

**Junior High School**, Roanoke, Va. Architects, H. Courcy Richards, 618 Chestnut street, Philadelphia. Owners, Board of Education, Roanoke, Va. Brick, steel and concrete, 3 stories, 186x89 feet, will contain 17 classrooms and combination gymnasium and auditorium, steam heating, electric lighting, plumbing, ventilating. Contracts awarded to D. J. Phipps, Roanoke, Va., \$146,939. Heating and ventilating, American Heating & Ventilating Co., Richmond, Va., \$14,675. Plumbing, Lowe & Co., Roanoke, \$8,477. Electric, Richardson & Wayland, Roanoke, Va., \$2,890.

### Proposals

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., April 25, 1923. Sealed Proposals will be opened in this office at 3 P. M., May 22, 1923, for construction of the United States Post Office at Phoenixville, Pa. Drawings and specifications may be obtained from the custodian of the site at Phoenixville, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 276)

modern types of insulation are more efficient and certain in results.

#### *Protects from Heat and Cold*

The use of modern insulating materials for homes was borrowed from the refrigeration industry. Here cork and other materials have been used for many years. In fact, a cold storage plant is practically impossible without the use of insulation.

Gradually it dawned upon us that the materials which would keep out the heat in a cold storage warehouse—the "insulation which permitted carloads of highly perishable fruit to be moved from sunny California to frigid Winnipeg—would keep out the cold in homes. Consequently insulation began to appear in architectural specifications and to be accepted and installed by the builders of better houses everywhere. Today the many materials that may be used for this purpose are being used in ever increasing quantities. A movement which began in the more effort to make homes easier to heat has spread throughout the land even into the southern district, for insulation has the double virtue of protecting homes from both heat and cold.

The question of whether or not one should use an insulating material for a

small home sometimes boils itself down to the actual saving in coal possible each year. This saving can be figured out for any plan and with any wall construction, but it depends, of course, on the amount of window and door area, the exposure, and the part of the country in which the house is built. The actual coal saving also depends upon the workmanship used in applying the insulation, the calking of window and door jambs, beam fills, and other matters of good building. It is usually possible, however, to cut the total fuel expense about 25 per cent., a very real saving on a small home.

Of course, the use of an insulating device in the walls without an observance of other details of construction which must go with it would reduce to a very small figure any value which might have been expected from the insulation. Some of the details which must be observed are as follows:

First, the space between the floor joists where they rest on the wall must be filled with masonry. This is called the "beam northern districts of our country in an fill" This fill serves as an obstruction to wind and to the circulation of air in the wood frame. It also protects your house to a certain extent from fire. This is one of the measures recommended by the Fire Underwriters to render wooden houses less inflammable.

Second, the insulation must be applied in continuous sheets and in such a manner that it will make tight joints with the studdings and joists and plates. You will see that if the joints are not tight the insulation will not be most effective. An ice box would not serve satisfactorily at all if any part of the wall were not insulated. The same principle applies to the insulation of a home.

Third, sheathing boards must be covered with a continuous layer of heavy waterproof sheathing paper for this supplies the necessary device to stop the wind and to protect the insulating medium. Some excellent forms of insulation such as grass, hair, and fibre are contained in heavy paper casings, but these also are reinforced by the sheathing paper. This should not be omitted in any case.

Fourth, the window frames and door jambs must be carefully calked with oakum or some other fibrous material for these spaces are usually too small to allow the workmen to place in position the kind of insulation used generally for the walls.

Finally, the windows and doors must be tightly fitted. Weather strips or storm sash should be employed. A combination of these is excellent, if one can afford it.

Perhaps we should draw attention to one feature of insulation which is often overlooked by the home builder. This has to do with the location of the insulat-

ing mat which protects the second story. We often see the insulation placed between the rafters but we are sure that this is not the best place to put it if the attic is not to be used for living quarters, for it means that there will be some heat losses through the second story ceiling to warm the attic space. The best location for the insulation in this particular connection is between the ceiling joists of the second story. As a matter of fact, insulation placed here is perhaps more effective than it is anywhere else in the building. We have quite often seen homes in which the insulation was omitted in the ceiling of the second story as a measure of economy, but engineers have determined that this is certainly a place where insulation will be of the greatest value.

The best results are obtained only by insulating all the outside walls of the building and the second story ceiling too. It is certainly worth knowing that the fuel saving alone of an insulated and otherwise well built home will pay for the entire cost of the insulation in a few seasons and will then return added dividends annually in lower fuel bills, to say nothing of the extra comfort.

—*The Small Home.*

F. V. Warren Company, Contractors and Builders, announce the removal of their offices to the Fraternal Home Insurance Building, 1913 Arch St., Philadelphia.

Thomas Edward Ash, architect, formerly of 1220 Locust St., has moved his offices to 1012 Walnut St., Philadelphia.

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising or advertising from an emotional standpoint.—Elbert Hubbard.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.  
34 S. 17th St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIRE-PROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 81st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond St., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Baker Warehouse. ....Venango and G Sts., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard. ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MORTGAGE FUNDS.

Taylor, G. Herbert. ....Pennsylvania Bldg., Phila.

## OIL HEATERS.

Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Baker Warehouse. ....Venango and G Sts., Phila.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D., Co. ....Otis Bldg., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D., Co. ....Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.  
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
Nictown Lane and Powder Mill Road, Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
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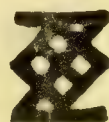
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Entered at the Philadelphia Post Office as Second-Class Matter

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May 9, 1923

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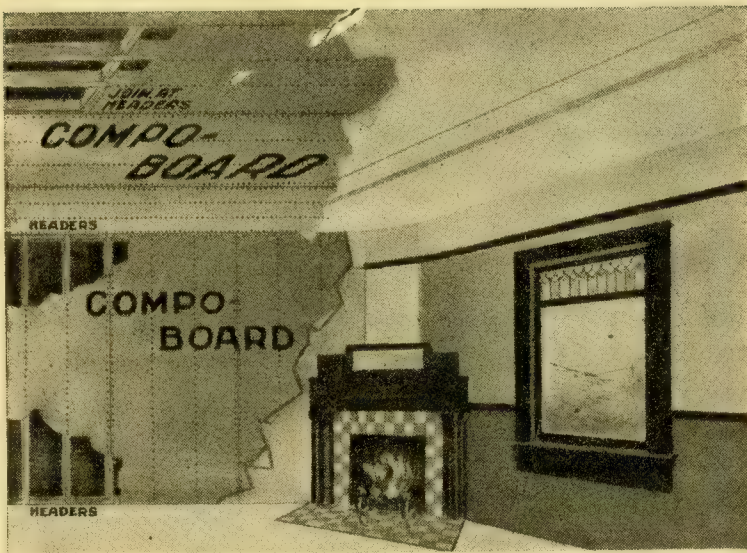
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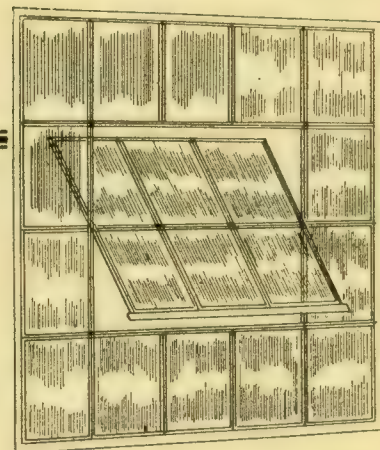
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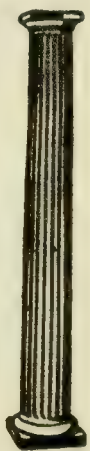
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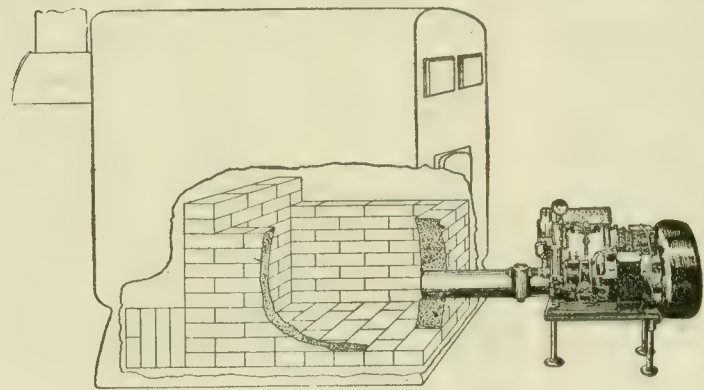
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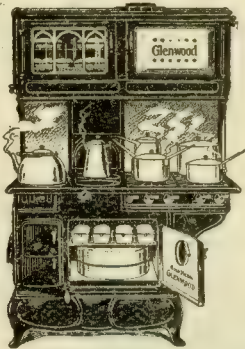
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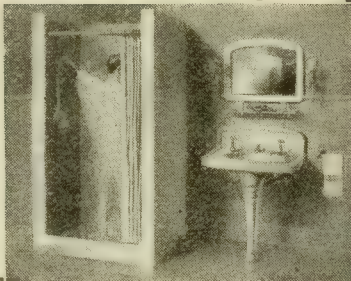
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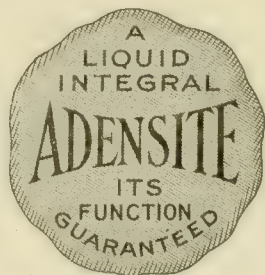
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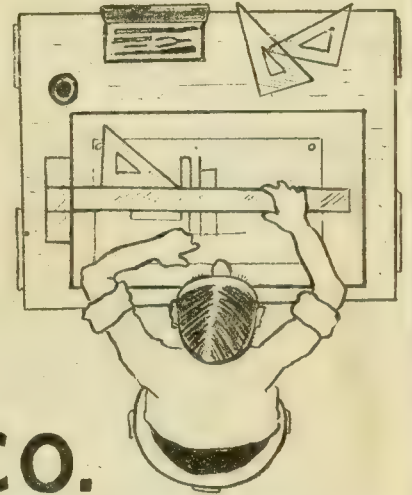
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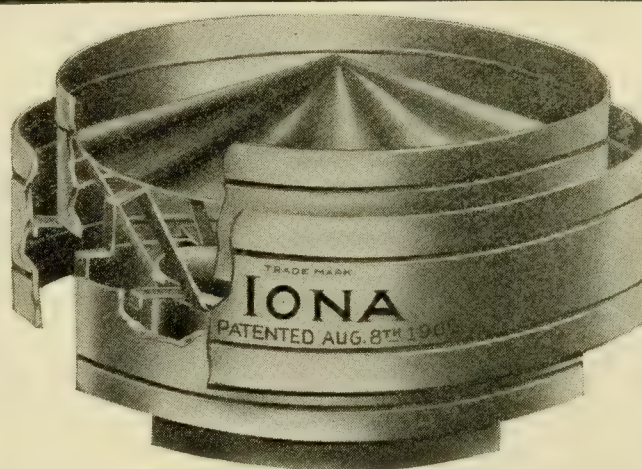
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 19

PHILADELPHIA  
May 9, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
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## Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Garage**, 215 North Spangler street, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, Ralph Fisher, care of architect. Brick, slow burning, 2 stories, 70x90 feet, slag roof, cement and plank floors, hot water or steam heating, electric lighting. Plans in progress.

**Residence (alts. and add.)**, 3235 North Seventeenth street, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, name withheld. Interior alterations, brick add., 1 story, 14x18 feet, slag roof, hardwood floors, stair work, tile work, heating and electric alterations, plumbing. Plans in progress.

**Store and Offices**, 1107 Walnut street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Bogash & Klutsch, Victory Building, Philadelphia. Brick and terra cotta and steel, 2 stories, 40x100 feet, slag roof, electric lighting. Plans in progress.

**Store and Apartments (alts. and add.)**, 5456 Baltimore avenue. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Philip Zitman, 936 South Fifty-eighth street, Philadelphia. Brick, rear add., 2 stories, 13x30 feet, front add., 16x27 feet, slag roof, pine floors, hot water heat, electric lighting, mosaic tile floor, marble work, plastering, plate glass, copper bars. Architect taking bids due May 11th.

**Office Building**, 127-29 South Fifth street, Philadelphia. Architects, Parker, Thomas & Rice, Union Trust Bank Building, Baltimore, Md. Owners, United States Fidelity & Guaranty Co., John Kent Kane, 315 Walnut street, Philadelphia. Brick, cut stone, limestone and steel, 4 stories, 53x94 feet, slag roof, concrete floors, steam heating, electric light, tile

and marble work, rolled steel sash, bond, iron work. Architect taking bids due May 19th.

**Building (alts. and add.)**, 142 North Fifth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Simon Walters, on premises. Architect taking bids due May 12th.

**Hotel**, Fifteenth and Ranstead streets, \$5,000,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Kugler's Hotel Co., Pennsylvania Building, Philadelphia. Brick, concrete and steel, limestone and terra cotta, 26 stories, 119x84 feet, cement, oak and pine floors, elevators, iron work, tile and marble, metal lath, steam heat, electric lighting. Architect taking bids due May 16th at 3 P. M.

**Store and Dwelling and Dwellings (10)**, Northwest Corner Loudon and D streets. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Frank G. Haufier, 144 West Olney avenue, Philadelphia. Brick and stone, 2 stories, 15½x38 feet, slag and tin roof, hardwood and pine floors, hot water heating, electric lighting, metal lath, hollow metal bay windows, metal ceiling, plate glass, plumbing, garages in basement, cement work. Owner is ready for sub-bids.

**Residences (6)**, (4) 2701-03, 2700-02 Cypress street, and (2) 2701-03 Eddington street, \$4,000 each. Architect, private plans. Owner, J. L. Wiza, 4420 East Thompson street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Apartment House**, Broad street, between Sixty-fifth and Sixty-sixth avenues. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Fox Brothers, 4814 North

Broad street, Philadelphia. Brick, stone and steel, 3 stories, 80x125 feet, slag and Spanish tile roof, hardwood floors, steam or vapor heating, electric lighting, tile and marble work. Plans in progress. Owners will take sub-bids in one month.

**Industrial Bridge**, Twenty-fifth and Hunting Park avenue. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Edward G. Budd Mfg. Co., on premises. Brick, reinforced concrete and steel, built-up roof, cement floors, waterproofing, iron work, bond, hollow metal sash. Revised plans in progress.

**Factory**, Fifth and Buttonwood streets, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, George D. Feidt & Co., 244 North Fifth street, Philadelphia. Brick. Plans in progress. Will be ready for bids in about one month.

**Residence (alts.)**, Emlen and Carpenter streets, Germantown. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Samuel Faber, 1207 Race street, Philadelphia. Rebuilding and general alterations, hot water heating, electric lighting, plumbing, hardwood floors, tile work. Plans in progress. Architect will take bids in one month.

**Recreation Building and Playground**, Blair and Berks streets. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Revised plans in progress.

**Loft Building**, Fifth street to Lawrence, South of Girard avenue. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, name withheld. Brick, steel and stone, 2 stories and basement, 229x35 feet and 28 feet, slag roof, plank floors, elevator,

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**Apartment Building (alts.),** 1411-13 West Erie avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Dr. M. F. Herman, on premises. Will contain 5 apartments, hot water heating, electric work, plumbing, tile and composition floors, tile work. Plans in progress. Architect will take bids in three weeks.

**Bank (alts.),** Eleventh and Montrose streets, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, South Philadelphia State Bank, on premises. New balcony and interior alterations. Plans in progress.

**Community Garages (57),** Chestnut street, West of Fifty-fifth street. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Charles L. Vetter, 5534 Chestnut street, Philadelphia. Brick, 1 story, 127½x110 feet, slag roof, concrete floors, steam heating, electric lighting, wood doors. Owners ready for sub-bids.

**Residence (alts.),** 719 South Seventh street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, G. Lione, on premises. Brick, hot water heating, hardwood, pine and composition floors. Plans completed. Owner ready for bids.

**Building (alts. and add.),** 329 South street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. Caplan, on premises. Brick, 3 stories, hot water heat, electric lighting, metal lath, tile work, iron work, roof repairs, oak and pine floors. Architect is ready for bids.

**Club House (alts. and add.),** 4624 Lancaster avenue, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, Shanahan Catholic Club, on premises. Hollow tile plastered, 1 story, 30x50 feet, slag roof, pine floors, electric light, rolled steel sash, pine floors, electric light, rolled steel sash, mill work. Architect taking sub-bids due as soon as possible.

**Garage,** Wissahickon avenue, Philadelphia. Architect, George Tomlinson & Son, 1713 Sansom street, Philadelphia. Owner, name withheld. Brick, 1 story, 40x150 feet, slag roof, cement floors, roof ventilators, hot water heat, electric light, plumbing, roof ventilators, steel work. Architects taking sub-bids due May 15th.

**Buildings (construction and improvement),** Brown's Farms, Forty-first Ward, Torresdale, Philadelphia. City architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Charities and Corrections, City Hall. General construction, plumbing, heating, electric work. Owners will be ready for bids in a few days.

**Manufacturing Building,** Torresdale avenue and M street, Philadelphia. Architect, Leroy B. Rothschild, 219 South Broad street, Philadelphia. Owners, Largman Gray Co., 3360 Frankford avenue, Philadelphia. Brick, reinforced concrete and steel, hosiery mill, 4 stories, 240x85 feet, boiler house, garage and dye house, 1 story, 90x120 feet, slag roof, cement floors, waterproofing and dampproofing, iron work, floor hardener (electric work, heating and plumbing reserved), tin-clad doors, rolled steel sash and skylights. Architect taking bids due May 11th.

**Store and Studio,** 1932-34 Sansom street, Philadelphia. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, C. Yarnall Abbott, The Gladstone, Philadelphia. Brick, steel, limestone and granite, 3 stories, basement and mezzanine, 30x80 feet, composition roof, cement floors, hollow tile, dampproofing, iron stairs and work, hollow metal doors, tile and marble work, metal lath. Architect taking bids due May 15th.

**Building (alts. and add.),** Sixteenth and Columbia avenue, Philadelphia. Architect, Ed-

win A. Roth, Drexel Building, Philadelphia. Owner, Jacob Goldsmith, on premises. Brick and stone work, carpentry, mill work, plumbing, electric work, plastering, tile and marble work, painting, glazing, iron and steel. Architect taking bids due as soon as possible.

**Track Elevation,** Delaware avenue, Snyder avenue to Bigler street. Owners, Pennsylvania System, Broad Street Station, Philadelphia. Engineer, A. C. Shand, Broad Street Station, Philadelphia. Assistant engineer, E. B. Temple, 1729 Filbert street, Philadelphia. Furnishing materials and labor the conduits, manholes and appurtenances. Owners taking bids due May 11th at 10 A. M., standard time. Plans may be obtained from assistant engineer.

**Residence (alts. and add.),** 1210 North Fifty-second street, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Karl Grunfeld, on premises. Concrete work, carpentry, mill work, painting, glazing, plastering, marble work (heating, electric work and plumbing reserved). Architect taking bids due as soon as possible.

**Warehouse,** 518 Kater street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, J. D. Weiss, care of architect. Brick and steel, 2 stories, 20x62 feet, slag roof, plank floors, electric light, metal lath, tile work, hollow metal skylights, bond. Architect taking bids due in one week.

**Stable and Wagon Shed,** 1325 to 1331 South Howard street, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, William Hamilton, 1335 South Howard street, Philadelphia. Brick, 1 and 2 stories, 59x100 feet, slag roof, pine floors, rolled steel sash, bond, iron work. Architect taking bids due as soon as possible.

**Loft Building,** Fifth street to Lawrence street, South of Girard avenue. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Michael Rock, 3148 North Broad street, Philadelphia. Brick, steel and stone, 2 stories and basement, 229x35x28 feet, slag roof, plank floors, elevator, steam heat, electric lighting, rolled steel sash. Owner is taking bids.

**Stores and (2) Family Dwelling,** 4110 Lancaster avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Morris Goldberg, on premises. Brick, 3 stories, 89x18 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, marble work, hollow metal skylights, bond, iron work, metal ceilings. Architect taking bids due May 29th.

**Electrical Work,** Holmesburg, Pa. Owners, Department of Public Welfare, Bureau of Charities and Corrections, 592 City Hall. Electrical work in power house and Building C, at Homes for the Indigent, Holmesburg, Pa. Owners taking bids due May 10th at noon.

**Semi-Detached Residences (2),** Mt. Airy avenue, Germantown. Architect, Richard W. McCaskey, Estey Building, Philadelphia. Owner, Louis S. Deitz, 1315 Arch street, Philadelphia. Stone, 2½ stories, 23x28 feet, slate roof, oak and pine floors, metal lath, tile work, hot water heat, electric light, iron work. Architect taking bids due May 10th.

**Residences (39),** East and West side Gratz street, South of Medary avenue. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, William C. Wiley, 2316 North Eighteenth street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heat, electric light. Owner will build.

**Store and Office,** 239-41 North Twelfth street, Philadelphia, \$17,000. Architect, private plans. Owner, D. Henwood, 717 South Sixty-third street, Philadelphia. Brick, 2 stories, 36x93 feet, slag roof, steam heat, electric light. Owner will build.

**Store (alts.),** 720 Market street, Philadelphia, \$8,000. Architect, private plans. Own-

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ers, Kohn-Adler Co., on premises. General alterations. Owner will build.

**Residences (7)**, 2401 to 2415 West Huntingdon street, \$37,500. Architect, private plans. Owner, George H. McCracken, 2528 West Lehigh avenue, Philadelphia. Brick, 2 stories, 16x39 feet, hot water heat, electric light, hardwood floors, slag roof. Owner will build.

**Grading**, Fifty-ninth to Sixtieth streets, Springfield avenue to Cobb's Creek Parkway, Philadelphia. Owner, Louis Davidson, 5500 Baltimore avenue, Philadelphia. Owner taking bids due as soon as possible.

**Residences (4)** (2) Glenlock and Unruh streets, and Keystone and Benner streets, Philadelphia, \$4,000 each. Architect, private plans. Owner, Oswald H. Thompson, 6608 Marsden street, Philadelphia. Brick, 2 stories, 16x38 feet, hot air heat, electric light, tile work. Owner will build.

**Residences (12)**, East side Ditman street, South of Magee, \$4,000 each. Architect, private plans. Owners, Tacony Housing Association, 6932 Keystone street, Philadelphia. Brick, 2 stories, 14x37 feet, slag roof, hot air heat, electric light. Owners will build.

**Residence**, North side Shelmire street, East of Bingham street, \$5,000. Architect, private plans. Owner, Edward Davis, 7301 Oxford Pike, Philadelphia. Frame, 2 stories, 26x41 feet, hot water heat, electric light, hardwood floors, tile work. Owner will build.

**Garages (3)**, East side Croskey street, South of Cambria street, \$70,000. Architect, private plans. Owners, C. & J. D'Aintoli, 2329 West Somerset street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Owners will build.

**Residences (8)**, Glenlock, Jackson and Unruh streets, \$32,000 total. Architect, private plans. Owner, D. J. Gereke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x38 feet, hot air heat, electric light. Owner will build.

**Tenement**, Southwest Corner Fifty-sixth and Regent streets, Philadelphia, \$10,000. Architect, private plans. Owner, Timothy Gallagher, Fifty-fifth and Springfield avenue, Philadelphia. Brick, 3 stories, 16x60 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residence**, Fifty-second and Woodbine avenue, Wynnefield, Philadelphia. Architect, A. Mueller, 901 Walnut street, Philadelphia. Owner, Joseph J. Matz, 735 Sansom street, Philadelphia. Brick and cut stone, 2½ stories, 27x61 feet, slate roof, mineral, oak and pine floors, hot water heat, electric lighting, metal lath, tile and marble work. Architect taking bids due May 15th.

**Residence (alts. and add.)**, 1924 Ritten-

house street, Philadelphia. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Harold Larzelere, 1219 Vine street, Philadelphia. Architect taking bids due May 18th.

**Residences (27)**, Ruscomb street and Rising Sun avenue, \$130,500. Architect, private plans. Owner, J. Joseph McHugh, 1617 Race street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (4)**, Granite and Edmunds streets, Philadelphia, \$22,000. Architect, private plans. Owner, Julius Bushholz, 2409 Duncan street, Philadelphia. Brick, 2 stories, 16x46 feet, hardwood floors, slag roof, hot water heat, electric light. Owner will build.

**Residences (17)**, Georges Lane and Berks street, \$96,000. Architect, private plans. Owners, Shriver & Steinmetz, Fifty-first and Catharine streets, Philadelphia. Brick, 2 stories, 16x40 feet and 16x30 feet, 12x10 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (2)**, East side Jackson street, North of Brill, \$4,500 each. Architect, private plans. Owner, Adolph Werner, 5335 Edom street, Philadelphia. Brick, 2 stories, 16x42 feet, 1 story, 16x8 feet, hot water heat, electric light, hardwood floors. Owner will build.

**Garage**, West side Pilling street, South of Arrott street, \$3,000. Architect, private plans. Owner, J. Elwood McKinley, 1318 Arrott street, Philadelphia. Brick, 1 story, 35x20 feet, slag roof, cement floors. Owner will build.

**Junior High School**, Memphis, Ann and Livingston streets. Architect, private plans. Owners, Board of Education, Nineteenth

above Chestnut streets. Lowest bidders: KKetcham & McQuade, 1029 Brown street, Philadelphia, \$872,000; William R. Dougherty, 1610 Sansom street, Philadelphia, \$895,000. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, \$40,981. Electric, Ross Electric, Beach and Brown streets, \$33,600. Heating, Austin, Gorham & McIlvain, 1816 Ludlow, \$89,680. Ventilating, Thompson Brothers, 520 Buttonwood street, \$3,700. Cabinet work, N. Snellenburg, Twelfth and Market, \$13,000 and \$15,900.

**Painting**, various schools, Philadelphia. Owners, Board of Education, Philadelphia. 90, Overbrook, P. J. McMahon, 1621 North Sixtieth street, \$2,900. 99, Huey, P. J. McMahon, 1621 North Sixtieth street, \$3,000; Barry, P. J. McMahon, 1621 North Sixtieth street, \$4,400; Dunlap, O. B. Kenon, 5315 Greenway avenue, \$5,315. 114, various, Albert Kuehnle, Seventeenth and Vine streets, \$21,940. 116, Taylor, W. H. Ehinger, 1237 Ridge avenue, \$4,220. **Electric Work**, Brooks, J. F. Buchanan, 1719 Chestnut street, \$2,444; Leidy, J. F. Buchanan, 1719 Chestnut street, \$2,087; Powers, Strang Electric, 214 South Seventh street, \$3,149; Arnold, Walker & Kepler, 531 Chestnut street, \$2,923; Morris, Walker & Kepler, 531 Chestnut street, \$3,333; Sartain, Walker & Kepler, 531 Chestnut street, \$2,773; Singlerly, Walker & Kepler, 531 Chestnut street, \$2,483; Widener, Walker & Kepler, 531 Chestnut street, \$3,283.

**Fairmount Dam**, Fairmount Park, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Lowest bidders: McLean Const. Co., Pier 5 North Wharves, \$628,000; Fred Snare, 1524 Chestnut street, \$633,000.

## Contracts Awarded

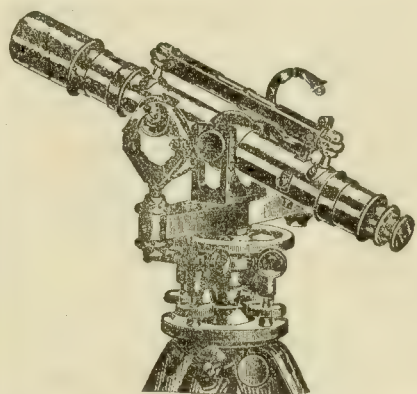
Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residence (alts. and add.)**, 1919 West Venango street, \$1,500. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Charles W. Spencer, on premises. General alterations and additions, second story, 13x4 feet, third story add., 13x20 feet, brick, slag roof. Contract awarded to Feeser & Woodley, 909 North Fifty-fourth street.

**Residence (alts.) and Stores (add.)**, Northeast Corner Fifteenth and Spruce streets. Architect, Nicola L. Porreca, 2062 South Fifty-second street, Philadelphia. Owner, Mrs.

Mary A. Materi, on premises. Brick, cut stone, steel, limestone and granite, 2 stories and basement, 60x20 feet, tin roof, hardwood floors, hot water heat, electric light, metal lath, roof ventilators, bond, iron work. Contract awarded to G. Thomas Halloway, 5433 Spring street.

**Garage**, West side Anderson street, South of Gorgas Lane, \$2,500. Architect, private plans. Owner, H. A. Stone, 6834 Anderson street, Philadelphia. Stone, 1 story, 21x21 feet, slate roof, cement floors, also **Residence**, add., 2



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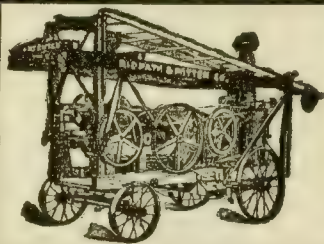
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stories, 10x8 feet, \$1,500. Contract awarded to Tourison & Tourison, 1310 Arch street.

**Laundry (add.),** 1216 Spring Garden street, Philadelphia, \$2,200. Architect, private plans. Owner, William J. Marky, on premises. Brick, 1 story add., 5 feet 10 inches x 45 feet, electric work, pine floors. Contract awarded to W. J. Erwin, 3532 North Thirteenth street, Philadelphia.

**Residence and Office (add.),** 3407 Walnut street, Philadelphia, \$2,000. Architect, private plans. Owner, Mrs. J. B. McPherson, 3405 Walnut street, Philadelphia. Brick, 1 story add., 20x7 feet, slag roof, hardwood floors, electric lighting, heating extension. Contract awarded to James J. Murphy & Son, 3640 Market street.

**Service Building,** Forty-second and Woodland avenue, Philadelphia, \$130,000. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Raymond H. Greenberg, 901 Morris Building, Philadelphia. Brick, concrete, cut stone and steel, 1 story, 119x628 feet, asbestos asphalt built-up roof, cement floors, hollow tile, waterproofing, iron work, bond, tin-lined doors, hollow metal sash, metal lath. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

**Office Building,** 2013-15 South Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, limestone and stone, 2 stories, 40x75 feet, slag roof, steam heating, electric lighting, pine and maple floors. Contract awarded to Harry Gill, Jr., 515 Germantown avenue.

**Parochial School,** Park avenue and Susquehanna avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Our Lady of Mercy Roman Catholic Church, care of Rt. Rev. Monsignor Gerald P. Coghlan, Broad and Susquehanna avenue. Cut stone, steel, concrete and stone, 3 stories, 153x77 feet, tile and slag roof, cement and maple floors, metal ceilings, bond, copper skylights, marble and terrazzo work, metal lath (heating, plumbing and electric work reserved). Contract awarded to Stang & Mitchell, Real Estate Trust Building, Philadelphia.

**Building (alts. and add.),** Thirty-third and Powelton avenue, Philadelphia, \$18,000. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, American Oncologic Hospital, on premises. Brick, cut stone and steel, 3 stories, 28x28 feet, slag roof, maple and cement floors, hollow tile, electric work, heating extension, metal lath, tile work, bond, terra cotta. Contract awarded to Jacob Myers Sons & Co., Witherspoon Building.

**Memorial Cottage** (Mrs. Charlotte McConnell), Fifty-eighth and Kingsessing avenue, Philadelphia, \$18,000. Architect, E. Kenney

Crothers, Media, Pa. Owners, Presbyterian Orphanage, on premises. Stone, 2½ stories, 75x40 feet, slate roof, mineral, oak and pine floors, iron work, steam heat, electric light, tile work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Residences (alts.),** 1915 Spruce street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Dr. Matthew S. Ersner, 1716 Pine street. Brick, 4 stories, 104x22 feet, slag roof, composition, cement, maple, oak and pine floors, waterproofing and dampproofing, metal lath, tile and marble work, hollow metal skylights, bond, iron work (heating, plumbing and electric work reserved). Contract awarded to A. Kirpichnikoff, Fifth and Tasker streets. (Cold water painting.)

**Store and Dwelling,** Second and Fairmount avenue, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, Harry Grossman, 550 North Second street, Philadelphia. Brick, steel and cut stone, 3 stories, 65x29 feet, slag roof, cement and maple floors, waterproofing, terra cotta, iron work, bond, hollow metal sash, tile and marble work, metal lath. Contract awarded to B. Bornstein, Belfield and Wingohocking avenue.

**Residence,** Sedgwick, Philadelphia, \$26,500. Architect, William Woodburn Potter, Real Estate Trust Building. Owner, John T. Kommer, 6335 Stenton avenue, Philadelphia. Stone, brick and steel, 2½ stories, 45x30 feet, slate roof, pine and oak floors, iron work, electric lighting, tile work. Contract awarded to James Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

**Restaurant and Residence,** 4213 Ridge avenue, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner (formerly William Benham), J. Kelly, care of owner. Brick and steel, 2 stories and basement, 72x18 feet, slag roof, oak and pine floors, metal lath, tile work, bond, iron work (heating and lighting reserved). Contract awarded to J. B. Kelly, 2313 Walnut street, Philadelphia.

**Chicken Slaughter House,** 904 South Ninth street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Mr. Ingals, on premises. Brick, 3 stories, slag roof, cement floors, electric lighting. Contract awarded to Nicholas Saurci, 2640 South Twelfth street.

**Power House,** Filbert street, East of Forty-first street, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Modern Laundry, 4085 Market street, Philadelphia. Brick, 1 story, 32x70 feet, Johns Manville roof, cement floors, rolled steel sash, hollow metal skylights. Con-

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tract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Garage**, 1224 North Eighteenth street, Philadelphia. Architect, Salvator J. Gritti, 817 North Sixteenth street, Philadelphia. Owner, Dr. Thomas F. Dunn, on premises. Brick, 1 story, 25x18 feet, slag roof, cement floors, electric lighting, sliding doors. Contract awarded to E. B. Hatch, 23 South Sixteenth street, Philadelphia.

**Building**, 4919-21 North Broad street, Philadelphia. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. Brick, concrete and steel, 116x38 feet, built-up roof, pine floors, metal ceilings, terra cotta, steam heating, electric lighting, metal lath. Contract awarded to Curtis Grindrod Co., 10 South Eighteenth street.

**Residence and Garage**, Midvale and Wissahickon avenues. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, George Plumly, Pelham Court Hotel, Germantown. Stone, 2½ and 1½ stories, 41x39 feet and 20x16 feet, slate roof, oak and pine floors, electric light, metal lath, tile and iron work. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy.

**Residence**, North side Gorgas Lane, East of Anderson street, \$18,000. Architect, private plans. Owner, Thomas Allsox, 6837 Gorston avenue, Philadelphia. Brick, 2 stories, 36x23 feet, slag roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to J. S. Cornell & Son, Morris Building, Philadelphia.

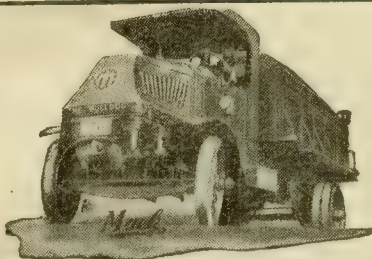
**Residence and Store**, Northwest Corner Fourth and Christian streets, Philadelphia, \$15,200. Architect, I. W. Levin, 1001 Chestnut street, Philadelphia. Owner, M. Glantz, Southwest Corner Fourth and Queen streets, Philadelphia. Brick, 3 stories, 17x45½ feet, slag roof, oak and pine floors, electric lighting, tile work. Contract awarded to Louis Cohen, 1904 North Twelfth street, Philadelphia.

**Residence**, West side Twelfth street, North of Sixty-fifth avenue, Philadelphia, \$11,000. Architect, A. V. Turner, Northwest Corner Fairhill and Cheltenham avenue, Philadelphia. Owner, Robert J. Love, 6405 North Camac street, Philadelphia. Stone and brick, 2 stories, 22x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to A. Turner, 5432 North Second street, Philadelphia.

**Residence and Store (add. and alts.)**, 212 North Fifty-second street, \$9,800. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Frank P. Heavey, 204 North Fifty-second street, Philadelphia. Brick, 3 stories, 18x20 feet, slag roof, hardwood floors, electric light. Contract awarded to Henny Const. Co., 2954 Westmont street.

**Shop (add.)**, West side Ninth street, South of Jefferson street, \$18,000. Architect, private plans. Owners, Rodenhause Wagon Works, 1437 North Hutchinson street, Philadelphia.

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delphia. Brick, 1 story add., 44x64 feet, slag roof, steam heat, electric work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Residence and Store**, Southeast Corner Fourth and Kauffman streets, \$13,000. Architect, private plans. Owner, Joseph Freilick, Southwest Corner Second and Catharine streets, Philadelphia. Brick, 3 stories, 16x52 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Contract awarded to Louis Friedman, 314 McKean street, Philadelphia.

**Store and Residence (add.)**, 2177 Ridge avenue, Philadelphia, \$7,500. Architect, private plans. Owner, S. Katzen, on premises. Brick, first story add., 3x19 feet, second story, 13x19 feet, third story, 13x19 feet, slag roof, electric work. Contract awarded to A. Rubin, 1127 Thompson street, Philadelphia.

**Residence (alts. and add.)**, Southwest Corner Thirty-ninth and Fairmount avenue, \$5,000. Architect, private plans. Owner, Harry Forman, 4018 Girard avenue, Philadelphia. Brick, 1 story, 18x16 feet, 5x25 feet, slag roof, general alterations. Contract awarded to Joseph Eskin, 4106 Westminster avenue, Philadelphia.

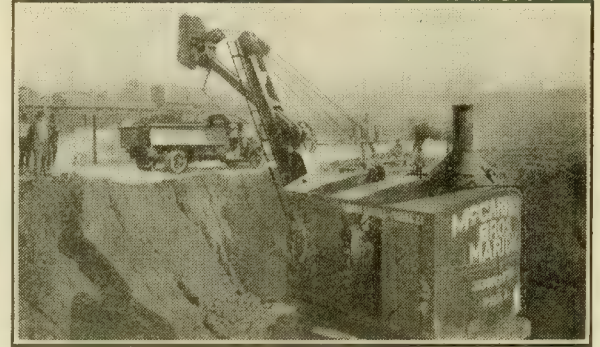
**Residence**, East side Alton street, North of Gregg street, \$7,000. Architect, private plans. Owner, H. Harold Hill, 192 Thelma street, Philadelphia. Frame, 2 stories, 29x32 feet, hardwood floors, electric light. Contract awarded to I. S. Kaufman, 219 North American Building.

**Residence**, West side Dorcas street, North of Cottman street, \$7,000. Architect, private plans. Owner, Frank C. Lynch, Dorcas and Cottman streets, Philadelphia. Frame, 2 stories, 24x24 feet, hardwood floors, electric light. Contract awarded to I. S. Kaufman, 219 North American Building.

**Residences (2)**, West side Salmon street, North of Lefevre street, \$4,800 each. Architect, private plans. Owner, C. Kakowicz, 4655 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x56 feet, slag roof, electric lighting. Contract awarded to C. Lakowicz Co., 4655 Torresdale avenue.

**Residence and Store**, East side Hegerman street, South of St. Vincent, \$7,000. Architect, private plans. Owner, Donato Bianco, Hegerman and Cottman streets, Philadelphia. Brick, 2 stories, 16x59 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John H. Rockie, 2231 Orthodox street, Philadelphia.

**Residences (2)**, North side Loney street, East of Castor avenue, \$6,000 each. Architect, private plans. Owner, William Arnold, 4551 Morris street, Philadelphia. Brick,



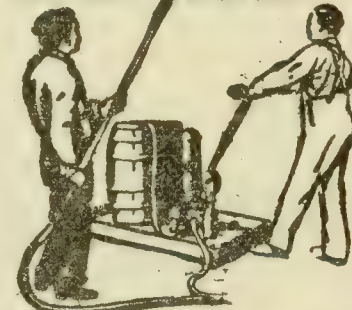
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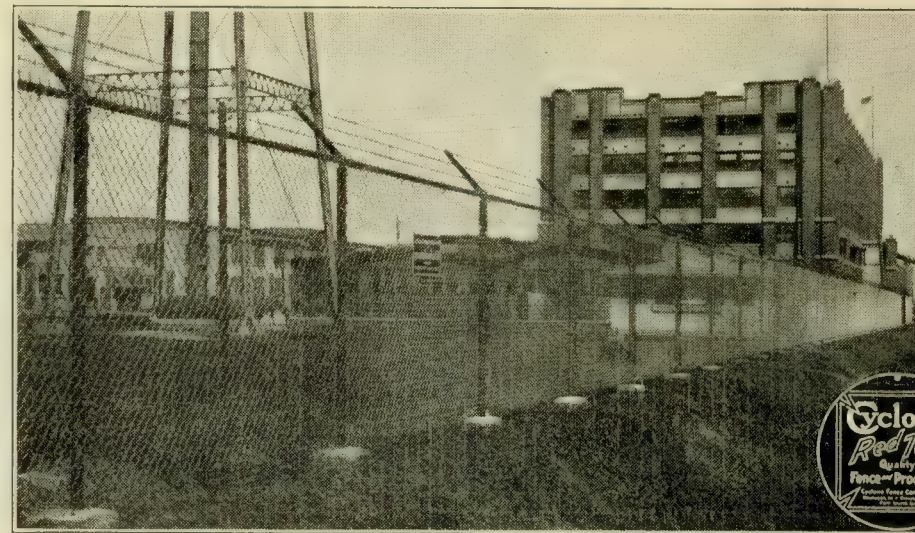
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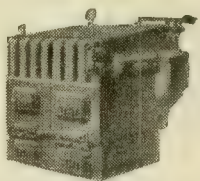
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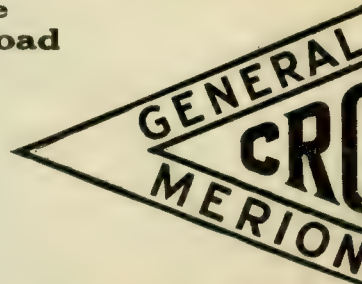
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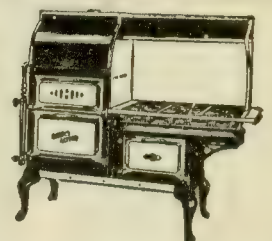
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frame, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to George B. Mitchell, 1606 North Park avenue, Philadelphia.

**Residence**, 4919 Uber street, Philadelphia, \$6,000. Architect, private plans. Owner, Ashton Green, 4949 Uber street, Philadelphia. Brick, 2 stories, 16x38 feet and 10x10 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to Arthur M. Lance, 2048 Haines street, Philadelphia.

**Residence and Store (alts. and add.)**, 1605 West Erie avenue, \$5,000. Architect, private plans. Owner, Mary L. Streeter, on premises. Brick, second story add., 18½x20 feet, slag roof, hardwood floors. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Residences (4)**, Princeton and Walker streets, Philadelphia. Architect, private plans. Owner, Paul Grotzinger, 601 East Westmoreland street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light. Contract awarded to Henry Evitts, 619 East Tioga street, Philadelphia.

**Residences (2)**, South side Russell street, East of G street, \$3,800 each. Architect, private plans. Owner, Mrs. C. Elfrey, 843 East Ontario street, Philadelphia. Brick, 2 stories, slag roof, hot water heat, electric light. Contract awarded to G. Brown, 3328 H street, Philadelphia.

**Photo Gallery**, 1526 North Thirteenth street (rear), Philadelphia, \$3,500. Architect, private plans. Owner, Earl Schappell, 1613 Spring Garden street, Philadelphia. Brick, 1

story, 16x35 feet, slag roof, hardwood floors, electric work. Contract awarded to H. M. Irwin, 1613 Ranstead street, Philadelphia.

**Residence and Garage (add.)**, 3207 Clifford street, Philadelphia, \$3,200. Architect, private plans. Owner, Joseph Rothstein, on premises. Brick, 1 story, 12x16 feet, slag roof, hardwood and cement floors, electric lighting. Contract awarded to Alex. P. Lucker, 5136 Parkside avenue.

**Residence (add.)**, 919 South Seventeenth street, Philadelphia, \$2,500. Architect, private plans. Owner, W. W. H. Casselle, 917 South Seventeenth street, Philadelphia. Brick, 3 stories add., 12½x43 feet, slag roof, hot water heat, electric lighting. Contract awarded to S. D. Brown, 917 South Seventeenth street, Philadelphia.

**Store (alts.)**, 1030 Chestnut street, Philadelphia, \$3,000. Architect, private plans. Owner, J. M. Rice, on premises. General alterations. Contract awarded to Cheskis & Sedofsky, 2543 South Eighth street.

**Garage**, Southeast Corner Fifty-ninth and Woodbine avenue, Philadelphia, \$4,000. Architect, private plans. Owner, John I. Coulbourn, Sixty-sixth and Sherwood Road, Philadelphia. Stone, 2 stories, 21x23 feet, slate roof, cement floors, electric work. Contract awarded to Milton W. Young, 2037 North Sixty-third street, Philadelphia.

**Residence**, East side Vandyke street, South of Pearson street, \$2,975. Architect, private plans. Owner, James H. Sutherland, 7204 Tulip street, Philadelphia. Frame, 1 story,

12x18 feet, yellow pine floors, electric light. Contract awarded to A. E. Rich, 1510 Cayuga street, Philadelphia.

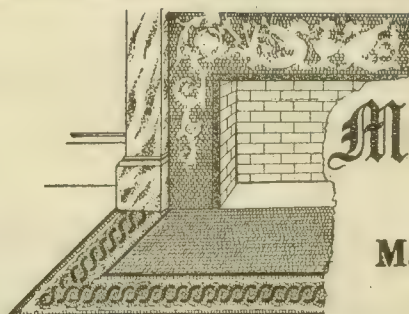
**Residence (add.)**, 2013 Pine street, Philadelphia, \$2,000. Architect, private plans. Owner, E. Stewardson, on premises. Brick, 1 story, 15x10 feet, third story, 14x8 feet, and fourth story, 14x8 feet, slag roof, pine floor, electric light. Contract awarded to Frank E. Wallace, 1220 Chancellor street.

**Theatre (alts.)**, Southeast Corner Ridge avenue and Natrona street, \$3,400. Owners, Green & Altman, 616 North Broad street, Philadelphia. General alterations. Contract awarded to Baldwin Co., 1636 Ludlow street, Philadelphia.

**Residence (add.)**, 107 East Lehigh avenue, Philadelphia, \$2,500. Architect, private plans. Owners, Coward & Heinkel, 107 East Lehigh avenue, Philadelphia. Brick, 2 stories, 12x12 feet, third story, 12x27 feet, slag roof. Contract awarded to William E. Stone, 2069 East Dauphin street.

**Warehouse (repairs)**, 619-21 Reed street, Philadelphia, \$2,000. Architect, private plans. Owner, B. Eglin, 625 Reed street, Philadelphia. General fire repairs. Contract awarded to I. Terry, 1404 South Sixth street, Philadelphia.

**Residence and Store (add.)**, Northeast Corner Fifty-eighth and Woodland avenue, \$3,400. Architect, private plans. Owner, H. Bloom, on premises. Brick, 1 story, 17x7 feet,



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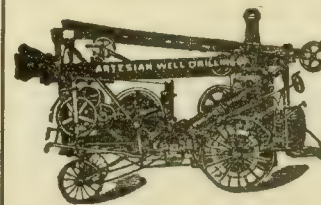
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slag roof, electric work. Contract awarded to Louis Bohen, 444 Mercy street, Philadelphia.

**Garage**, 2231 West Cambria street, Philadelphia, \$5,500. Architect, private plans. Owner, Fred Messnar, 2229 Cambria street, Philadelphia. Brick, 1 story, 34x50 feet, 50x25 feet, slag roof, cement floors. Contract awarded to William Lourz, 3009 North Twenty-third street, Philadelphia.

**Residence and Store (alts.)**, 1833 South Broad street, \$2,500. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Frank Di Bernardino, 821 Christian street, Philadelphia. General alterations. Contract awarded to Frank R. Bilotta, Southeast Corner Seventh and Christian streets.

**Office (add.)**, East side Amber street, South of Venango, \$2,000. Architect, private plans. Owners, Gill Glass Co., on premises. Brick, 1 story add., 35x20 feet, slag roof, pine floors.

Contract awarded to Hetzel & Sons, 1542 Womrath street.

**Residence (alts.)**, 2513 North Front street, Philadelphia, \$2,000. Architect, private plans. Owner, Walter J. Klenk, 2439 North Second street, Philadelphia. General alterations. Contract awarded to William E. Stone, 2069 East Dauphin street.

**Residences (add.)**, 908 Christian street, Philadelphia, \$2,200. Architect, private plans. Owner, Mariano Garso, on premises. Brick, 3 stories, 12x12 feet, pine floors. Contract awarded to Frank Luzzi & Co., 912 Christian street.

**Restaurant (add.)**, 1219 Locust street, Philadelphia, \$2,000. Architect, private plans. Owner, M. Ferrera, 1214 South Eighteenth street, Philadelphia. Brick, second story add., 17x27 feet, slag roof. Contract awarded to Walter Brothers, 1113 Cherry street, Philadelphia.

**Store and Apartment**, Newtown, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2 stories, 25x60 feet, slate roof, pine floors, steam heat, electric light. Plans in progress.

**Warehouse**, Wilkes-Barre, Pa. Architect, H. A. Maier, Wilkes-Barre, Pa. Owner, name withheld. Slow burning construction, 3 stories and basement, 100x110 feet, slag roof, pine floors, electric light, freight elevators, steel sash, fire doors and tower, iron stairs, dampproofing. Plans in progress.

**Residence**, Freeland, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, James Brogan, Freeland, Pa. Frame, stucco, 2 stories, 30x36 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Hydrothapentic Building**, Retreat, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, George Brown, Retreat, Pa. Fireproof construction, 2 stories, 40x70 feet, slag roof, tile and composition floors, tile and marble work, cut stone, kalamein doors, waterproofing, steel stairs. Owners ready for bids.

**Garages (4), Apartments (2)**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, George Remaly, 430 Avenue D, Bethlehem, Pa. Brick, 2 stories, 32x40 feet, slag roof, hardwood and concrete floors (heating, electric work and plumbing reserved). Plans in progress.

**Residence**, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Richard Howell, care of architect. Cinder block, 2½ stories, 36x28 feet, slate roof, hardwood floors (heating and electric work reserved), tile work. Plans in progress.

**Residence**, Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, A. A. Sweetser, 222 Adams avenue, Scranton, Pa. Hollow tile, stucco, 2½ stories, 32x34 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence (alts. and add.)**, Dalton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, P. J. Casey, Hotel Casey, Scranton, Pa. Brick, frame, 2 stories, slag roof, hardwood floors, interior alterations. Plans in progress.

**Store (alts. and add.)**, Nanticoke, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, name withheld. Brick, 1 story add., 38x86 feet, slag roof, hardwood floors, metal lath, electric light, hollow tile, elevators, roof ventilators, metal ceilings, dampproofing. Plans in progress.

**Residence**, Nanticoke, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner,

## PENNSYLVANIA

# Construction News

**Residences (17)**, Whitewood Park, Elkins Park, Pa., \$560,000. Architects, Andrew J. Sauer Co., Denckla Building, Philadelphia. Owner, name withheld. Stone, hollow tile and stucco, various sizes, slate roofs, steam heating, electric lighting, hardwood floors, tile and marble work. Plans in progress.

**Garage**, 307 South Latches Lane, Merion, Pa. Architect, Albert E. Westover, Keith's Theatre Building, Philadelphia. Owner, Paul F. Richter, on premises. Stone, brick and steel, 1 story, 24x23 feet, slate roof, cement floors, gas steam heat, electric lighting. Bids due May 14th.

**Kitchen (add.)**, Mercersburg, Pa., \$40,000. Architect, Edward B. Lee, 1210 Chamber of Commerce Building, Pittsburgh, Pa. Owners, Mercersburg Academy, Mercersburg, Pa. Brick, 2 stories, 40x32 feet, electric lighting. Owners will build.

**College Buildings**, Meadville, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Allegheny College, Fred W. Hixon, Beatty Hall, Meadville, Pa. Brick, stone and steel. Plans in progress.

**High School**, Mechanicsburg, Pa., \$80,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Mechanicsburg School Board, G. H. Luchas, secretary,

Mechanicsburg, Pa. Too early for details.

**School Building**, Springfield, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Springfield Township, Pa. Brick, stone and steel. Plans about completed. Architects will be ready for bids in three weeks.

**Residence (alts. and add.)**, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, T. J. Lee, Philipsburg, Pa. Frame, 2½ stories, 40x40 feet, asbestos shingle roof, hardwood floors, electric light, plumbing, tile work. Plans in progress. Architect will take bids in four weeks.

**Garage (4-car)**, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, J. E. Fryberger, Philipsburg, Pa. Brick, concrete and steel, 1½ stories, 40x32 feet, asbestos slate shingle roof, cement floors, hot water heat, wood sash. Plans in progress. Will be ready for bids in two weeks.

**Store Front**, Milton, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Standard Printing Co., care of Penn Hastings, Milton, Pa. Brick front, 2 stories, 56 feet wide. Plans in progress.

**Synagogue**, Wilkes-Barre, Pa., \$100,000. Architect, R. A. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, care of A. Hurwitz, Chairman of Building Committee, Wilkes-Barre. Stone, brick, 1 story and basement, 70x110 feet. Too early for details.

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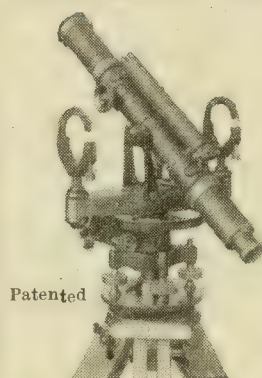
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name withheld. Frame, 2½ stories, 32x38 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Residence**, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, William A. Mowrer, Bridge and Penn streets, Spring City, Pa. Brick, stone, 2½ stories, 30x30 feet, asbestos roof, oak and maple floors (heating reserved), electric light, metal lath, wood sash. Plans in progress.

**Apartment**, Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Dr. B. A. Tyler, Main street, Royersford, Pa. Brick, 3 stories, 50x60 feet, tin roof, wood floors (heating, electric work and plumbing reserved), iron stairs, wood and metal sash. Plans in progress.

**Grain House and Corn Crib**, near Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Board of Directors of Poor, R. D., Royersford, Pa. Frame and metal, 2 stories, 22x60 feet, slate roof, concrete and wood floors, electric light, metal siding, bond. Plans in progress.

**Piggery**, near Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Board of Directors of Poor, R. D., Royersford, Pa. Concrete, steel, 2 stories, 20x100 feet, tin roof, concrete floors, electric light, bond. Plans completed.

**Residence**, Sharon Hill, Pa. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, J. P. Tucker, 2703 South Thirteenth street, Philadelphia. Stone, 3 stories, 49x41 feet, red tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in one week.

**Residence and Garage**, Garrett Road, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, R. H. Smith, 4239 Osage avenue, Philadelphia. Stone, 2½ stories, 35x80 feet, hardwood and pine floors, electric lighting. Architects will be ready for bids in one week.

**Store and Apartment**, Throop, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, W. Ardziejewski, Dun-

more, Pa. Brick, 2 stories, 24x60 feet, slag roof, hardwood floors, hollow tile, vapor heat, electric light, metal lath, tile work, marble work. Architect will be ready for bids next week.

**School**, Conklin, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owners, Conklin School District No. 3, Howard Thurber, Conklin, Pa. Brick, 1 story, 24x65 feet, composition roof, pine floors, hollow tile (heating, electric work and plumbing reserved), metal lath, roof ventilators, rolled steel skylights. Owners ready for bids.

**Apartment and Store**, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owner, Anna Dougherty, 817 Hemlock street, Scranton, Pa. Frame, 2 stories and basement, 37x43 feet, slag roof, pine floors, steam heat, electric light, copper work, metal ceilings, ornamental iron work. Architect ready for revised bids.

**Church**, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton, Pa. Owners, St. Lucy's Roman Catholic Church, Rev. V. Gusisatti, Scranton, Pa. Brick, stone, 1 story, 66x120 feet, tile roof, hardwood floors (heating and electric work reserved), metal lath, roof ventilators, ornamental plaster. James Arizoni, chairman Building Committee, Miller Building, Scranton, Pa., ready for bids.

**Garage and Apartment**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, J. Figari, Lancaster, Pa. Brick, 2 stories, 38x24 feet, tin roof, pine floors, hot water heat, electric light. Owner will take bids.

**Warehouse (add.)**, Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, Block Brothers, 419 North Prince street (rear), Lancaster, Pa. Brick, 4 stories, 60x90 feet, 60x60 feet, slag roof, wood floors, electric light, steel sash, fire doors, floor hardener. Architect will be ready for bids in one week.

**Residence**, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange Street, Lancaster, Pa. Owner, H. Powers, Lancaster, Pa. Brick, 2½ stories, 36x28 feet, slate roof, hardwood floors, hot water heat, electric light. Owner ready for bids.

**Residence**, Mill Road and Pembroke avenue, Brookline, Pa. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Dr. A. Howard Thomas, Broad and Filbert streets. Frame and stucco, 3 stories, 25x35 feet, creodipt shingle roof, hardwood floors, hot water heat, electric light, tile work, lunkin windows, plumbing. Sylvania Realty Const. Co., 3 North Nineteenth street, Philadelphia, taking sub-bids due as soon as possible.

**Residence**, Watertown, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Frank F. Wagner, Watertown, Pa. Frame, 2½ stories, 28x36 feet, shingle roof, hardwood and composition floors, electric light, tile work (heating reserved). Owner will build.

**Residences (2)**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, B. Caldwell, Lancaster, Pa. Brick, 2½ stories, 26x28 feet, slate roof, pine floors, hot water heat, electric light. Plans in progress. Owner will build.

**Residence**, Lancaster, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, W. L. Evans, 44 West King

street, Lancaster, Pa. Stucco, 1 story, 40x26 feet, slate roof, pine floors. Owner will build.

**Bank**, Perkasio, Pa. Architect, Tilghman H. Moyer, 824 Hamilton street, Allentown, Pa. Owners, First National Bank, Dr. C. B. Weaver, president, Perkasio, Pa. Stone, 1 story, 30x80 feet, slag roof, tile floors, hollow tile metal lath, electric light, tile and marble work, bronze work, rolled steel sash, metal window guards, vault, bank fixtures, ornamental iron work. Architect will build.

**Offices and Stores**, Plymouth, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Frank Martz, Plymouth, Pa. Brick, steel, stone, 2 stories, 70x28 feet, slag roof, pine floors (heating reserved), electric light, metal lath. Owner ready for sub-bids.

**Club House**, Brookline, Delaware County, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Brookline Square Club, Brookline, Pa. Brick, cut stone, steel and stucco, 2½ stories, 175x175 feet, shingle roof, cement and pine floors, hollow tile, metal lath, tile and marble, bond (heating, electric work and plumbing reserved). Architect taking bids due May 14th, at noon.

**Warehouse (alts. and add.)**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owners, J. T. Bell Co., Wilkes-Barre, Pa. Brick, steel, 1 story, 40x100 feet, composition roof, plank and steel truss floors, heating extension, electric light, rolled steel sash and skylights, freight elevators, elevator doors, roof ventilators, fire escapes. Architect taking bids due as soon as possible.

**High School**, Brighton Road and Island avenue, Pittsburgh, Pa. Architects, James Steen & Sons, Pittsburgh, Pa. Owners, Board of Education, George W. Gerwig, secretary, 725 Fulton street, Pittsburgh, Pa. Brick, concrete and steel, 3 stories and basement, 215x63 feet, (3) wings, 78x82 feet, 115x63 feet, and 78x63 feet, slag roof, composition, cement and maple floors, hollow tile, metal ceilings, waterproofing, iron work and stairs, bond, fire, kalamein and hollow metal doors, rolled steel skylights, hollow metal sash, tile, marble and terrazzo, metal lath (heating, lighting, plumbing separate bids). Owners taking bids due May 17th.

**Residence**, Colfax street, Scranton, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owner, S. Savadkin, care of architects. Frame, stucco, 2 stories, 28x53 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due May 12th.

**Residence**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 2½ stories, 42x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Architects taking bids due May 12th.

**Store and Storage Building**, West King street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Marshall E. Smith & Co., Strawberry and Lafayette streets, Lancaster, Pa. Brick, mill construction, 3 stories, 36x60 feet, slag roof, yellow pine floors, steam heat, electric light, rolled steel sash, fire doors. Owner taking bids.

**Residence**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, name withheld. Frame, 2½ stories, 42x40 feet, shingle roof,

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# TILES

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hardwood floors, tile work, electric light. Architects taking bids due May 12th.

**Bank and Office Building**, Third and Market streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Mechanics' Trust Company, J. C. Moller, Harrisburg, Pa. Brick, cut stone and steel, 9 stories, 55x36 feet, composition roof, tile and concrete floors, elevators, waterproofing, terra cotta, iron work and stairs, bond, rolled steel sash and skylights, tile and marble, metal lath (heating, lighting and plumbing separate bids). Owners taking bids due May 11th.

**Louis H. Eisenlohr Memorial Building for Girls**, Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Stone and brick, 2 stories and basement, 98x56 feet, E-shaped. Architect taking bids due May 15th.

**Water Works (add.)**, Harrisburg, Pa. Engineer, James H. Fuertes, 140 Nassau street, New York. Owners, City of Harrisburg, Department of Public Safety, S. F. Hassler, superintendent, Dauphin Building, Harrisburg, Pa. 30,000,000 gallon reservoir, 86,000 yards excavation, 13,600 yards of concrete. Bond. Owners taking bids due May 15th at 1 P. M.

**Residences (26)**, Lancaster, Pa., \$7,000 each. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Stephen Developing Co., care of architect. Brick, 2½ stories, 28x26 feet, slate roof, pine floors, hot air heat, electric light. Architect taking bids due as soon as possible.

**School Building**, Chadds Ford, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Consolidated School Board of Delaware, Wilmington, Del. Lowest bidders: W. J. Elliott, Coatesville, Pa., \$93,820; Chester Const. & Cont. Co., Chester, Pa., \$98,250.

**School**, Pringle street, Kingston, Pa. Architect, Mack & Sahm, Coal Exchange Building, Wilkes-Barre. Owners, Kingston School Board, Mr. Evans, secretary, Kingston, Pa. Low bidders: Herman Mailander, 167 Barney street, and W. Richards, Simon Long Building, Wilkes-Barre, Pa. (On alternate.)

**School (add.)**, Chester street, Kingston, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, School Board of Kingston, J. Miles, secretary, Kingston, Pa. Low bidder: W. Richards, Simon Long Building, Wilkes-Barre, \$74,482.

**High School (alts. and add.)**, Swarthmore, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Board of Education, Swarthmore, Pa. Only bid submitted by Sinclair & Griggs, Medical Arts Building, Philadelphia, \$433,160.

**Dormitory Building**, Doylestown, Pa. Architect, Andrew J. Sauer Co., Denckla Building, Philadelphia. Owners, National Farm School, Doylestown, Pa. Brick, steel, stone and hollow tile. Preliminary plans in progress.

**Residences (40)**, South Springfield, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, John J. Dougherty, Sixty-ninth Street Terminal, Philadelphia. Stone and stucco, 2 stories, 16x30 feet each (semi-detached), creodipt shingle roof, hardwood, pine and mineral floors, hot water heating, electric lighting. Owner will build.

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Finance, care of "Builders' Guide," Philadelphia, Pa.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Low bidders on road work opened May 1st, 1923:

Butler County, A-2262, Butler and Summitt Townships. One course reinforced concrete and hillside vitrified brick. Garvey Weyenberg Const. Co., Appleton, Wis., \$263,154.62.

Butler County, R-233, A-2311-12 and 13, Worth and Slippery Rock Townships and Slippery Rock Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Garvey Weyenberg Const. Co., Appleton, Wis., \$195,726.08.

Cambria County, R-276, A-2306, Portage and Washington Townships, Cassandra and Lilly Boroughs. One course reinforced concrete. P. C. Azzara Const. Co., Cresson, Pa., \$273,042.05.

Crawford County, R-271, A-2247 and 2251, Rome and Steuben Townships, Centerville Borough. Either bituminous surface course on concrete foundations or one course reinforced concrete. The J. C. Devine Co., Alliance, Ohio, \$165,009.35.

Erie County, R-304, A-2329, Amity Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. The J. C. Devine Co., Alliance, Ohio, \$115,740.10.

Indiana County, R-54, A-2156, White Township. One course reinforced concrete. M. Bennett & Sons, Indiana, Pa., \$219,497.40.

Lackawanna County, R-168, Elmhurst Borough. Hillside vitrified brick. H. B. Sproul Const. Co., Inc., Scranton, Pa., \$14,534.50.

Lawrence County, R-265, A-2272. One course reinforced concrete and hillside vitrified brick. Garvey-Weyenberg Const. Co., Appleton, Wis., \$171,231.22.

Mercer County, R-206, West Salem and Green Townships and Jamestown Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Samuel Gamble Co., Carnegie, Pa., \$248,564.00.

Mercer County, R-238, A-2323, Hickory Township and Sharon City. One course reinforced concrete. Jamieson & Narlee, Fredonia, Pa., \$41,737.40.

Northampton County, A-2231, Nazareth Borough. One course reinforced concrete. Neumeyer Brothers, Bethlehem, Pa., \$42,379.20.

York County, R-332, A-2368, Sec. 3, Spring Garden Township. Warren Brothers Co., Boston, Mass., \$45,577.10.

York County, R-230, A-2177, Heidelberg Township, \$127,825.47. William T. Staats, 5403 Diamond street, Philadelphia.

York County, R-210, A-2175, Lower Chanceford Township, Section 3. Freeland Const. Co., Freeland, Pa., \$237,090.12.

Clearfield County, R-59, Station No. 420, Pike Township. Two-span plate girder bridge. Mason & Savage, Warren, Pa., \$22,656.05.

**Chapel**, Wind Gap, Pa. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Rev. Peter M. Montiani, C. M., Roseto, Pa. Stone and frame, 52x76 feet, slate roof, pine floors, pipeless heat, electric lighting. Architect ready for bids due May 15th.

**Church**, Roseto, Pa. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. Peter Montani, Roseto, Pa. Stone, 1 story, balcony, 44x96 feet, basement hall, slate roof, pine and cement floors, steam heat, electric lighting. Architect ready for bids due May 15th.

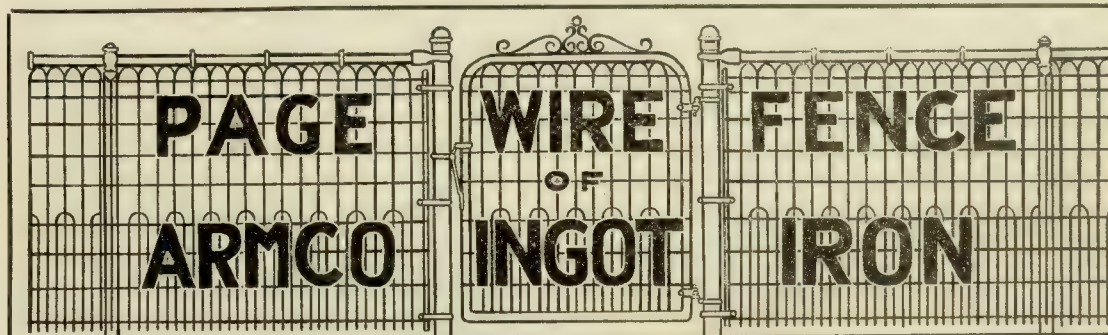
## Pennsylvania Contracts Awarded

**Nurses' Home**, Eaglesville, Pa. Architect, Leroy B. Rothschild, 219 South Broad street, Philadelphia. Owners, Eaglesville Sanitarium, Eaglesville, Pa. Brick and frame, 2 stories, 53x40 feet, slate roof, oak and pine floors, steam heat, electric light, tile, bond, iron work. Contract awarded to Simon Reece, 2424 North Park avenue, Philadelphia.

**Sunday School**, Lemoyne, Pa., \$25,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Grace Evangelical Church, Rev. Crumbling, Lemoyne, Pa. Stone, 1 story and basement, 54x80 feet, composition roof, pine floors, steam heat, electric light, tile work. Contract awarded to C. W. Strayer, Lemoyne, Pa.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Mercer County, Appli. 1985, Stoneboro Borough, \$51,798. Contract awarded to McQuiston Paving & Const. Co., Farrell, Pa.

**Residence**, Villa Nova, Pa. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owner, George R. Packard, Fifth and Walnut streets. Stone, 2½ stories, 107x31 feet, wing 30x20 feet, garage, 1½ stories, 17½x22 feet, shingle roof, hardwood floors, cement work, tile and marble work (heating, electric lighting and plumbing



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reserved.) Contract awarded to J. D. Lengel, Wayne, Pa.

**Garage,** Ashbourne Road and Montgomery avenue, Ashbourne, Pa. Architect, H. P. Weldon, 1627 Sansom street, Philadelphia. Owner, William Fox, on premises. Stone, brick and concrete and steel, 2 stories, 50x75 feet, slag roof, cement floors, rolled steel sash (heating, lighting and plumbing reserved). Contract awarded to Albert Dunlap, 7223 Oak avenue, Oak Lane.

**Bank,** Honesdale, Pa. Architects, Edward H. Davis and George M. D. Lewis, Union Bank Building, Scranton. Owners, Wayne County Savings Bank, care of Mr. Fowler, Honesdale, Pa. Fireproof construction, 1 story and mezzanine, 55x90 feet, hollow tile, steel, wood and slag roof, electric light, tile, marble and terrazzo work, rolled steel skylights, roof ventilators, vault, bank fixtures, limestone front. Contract awarded to Shephard Const. Co., Miners' Bank Building, Wilkes-Barre, Pa.

**Church,** McAdoo, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Slavoc Roman Catholic Church, Rev. J. M. Borovec, McAdoo, Pa. Brick, 1 story and basement, 60x108 feet, slate roof, electric work. Contract awarded to Fred Schaar, Audenried, Pa.

**Residence (alts. and add.),** Wayne, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, William R. Verner, Huntingdon and Reese streets. Stone, 2½ stories, 28x20 feet, slate roof, oak and pine floors, central heating, electric lighting, tile work, iron work (hardware reserved). Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

**Bungalow,** Adams avenue, Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, P. Miglierino, 1369 Adams avenue, Dunmore, Pa. Stucco, metal lath, 1½ stories, 48x29 feet, shingle roof, hardwood floors, electric lighting. Contract awarded to Arthur Raymond, Scranton, Pa.

**School (add. and alts.),** Pershing, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, South Abington School Board, C. Cook, Pershing, Pa. Frame, 2 stories, 30x40 feet, slag roof, pine floors (heating, plumbing, electric work reserved), metal lath roof ventilators, bond. Contract awarded to Peck Lumber Co., 107 East Market street, Scranton.

**Synagogue,** Mahanoy City, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, care of A. Levine, Mahanoy City, Pa. Brick, limestone, 1 story, 25x75 feet, shingle roof, hardwood floors, steam heat, electric light. Contract awarded to J. C. Reiner, Mahanoy City, Pa.

**Store, Loft and Garage,** Scranton, Pa. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owner, H. Jones, care of architect. Brick, steel, 2 stories, 40x170 feet, slag roof, hardwood and concrete floors (heating and electric work reserved), metal lath, hollow tile. Contract awarded to Lackawanna Const. Co., Scranton, Pa.

**Residence,** Kingston, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre. Owner, J. B. Wallace, Miners' Bank Building, Wilkes-Barre, Pa. Frame, 2 stories, 30x42 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to O. J. Behrens & Son, 179 Blackman street, Wilkes-Barre, Pa.

**Store and Apartment,** Miners Mills, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, P. J. Boylan, Miners Mills, Pa. Frame, 2 stories, 22x54 feet, slag roof, hardwood and pine floors, steam heat, electric light. Contract awarded to Stanley Juzwiak, Parsons, Pa.

**Church,** Wilkes-Barre, Pa. Architect, T. H. Atherton, Coal Exchange Building, Wilkes-Barre. Owners, Baptist Tabernacle, care of

architect. Brick, steel, 1 story and basement, 52x80 feet (plumbing, heating, electric work reserved), slate roof, hardwood and concrete floors. Contract awarded to O. J. Behrens & Son, 179 Blackman street, Wilkes-Barre.

**Residence,** West Kingston, Pa. Architect, H. G. Cook, Miners Bank Building, Wilkes-Barre, Pa. Owner, H. Weigand, 43 Carlisle street, Wilkes-Barre, Pa. Brick, 2 stories, 36x45 feet, Spanish tile roof, hardwood floors, vacuum heat, electric light, metal lath. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre.

**Church,** Duryea, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, C. A. Steib, care of architects. Brick, 1 story and basement, 40x112 feet, slate roof, pine floors, metal lath, steam heat, electric light. Contract awarded to J. J. Gibbons, Avoca, Pa.

**Fire Engine House,** Plymouth, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Borough of Plymouth, care of Commissioners, Plymouth, Pa. Frame or brick, 2 stories, 30x70 feet, concrete and maple floors (heating reserved), electric light, tile work, steel work. Contract awarded to A. Minkewicz, Plymouth, Pa.

**Store and Residence,** Lancaster, Pa., \$10,000. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owner, W. Bonn, 714 South Queen street, Lancaster, Pa. Brick, 2 stories, 22x76 feet, tin roof, pine floors, hot water heat. Contract awarded to L. Witmer, Ephrata, Pa.

**Silk Mill,** Columbia, Pa. Architect, J. B. Harmon, 48 North Queen street, Lancaster, Pa. Owners, Marietta Silk Mills, Marietta, Pa. Brick, steel, 1 story, 160x65 feet, gypsum roof, wood floors, vapor heat, electric light, roof ventilators, dampproofing, steel sash, skylights, fire doors. Contract awarded to Ivan L. Rohrer, R. D. 5, Lancaster, Pa.

**Public Comfort Station,** Central Square, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Reading, Pa. Owners, City of Lancaster, J. W. Hetrick, chairman Building Committee, Woolworth Building, Harrisburg, Pa. Concrete, 60x60 feet, terrazzo and tile floors (heating, electric work and plumbing reserved), marble work, safety treads, waterproofing. Contract awarded to D. S. Warfel, 39 East Grant street, Lancaster, Pa.

**Club House (add.),** Harrisburg, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Colonial Club, D. A. Caley, secretary, Kunkel Building, Harrisburg, Pa. Shower rooms, lockers, roof garden. Contract awarded to Charles Bushong, 1713 Boas street, Harrisburg.

## New Jersey Construction News

**Apartment House,** Prospect street, Trenton, N. J. Architect, William A. Kleeman, First National Bank Building, Trenton, N. J. Owner, Edmund D. Cook, Jr., Trenton, N. J. Brick, reinforced concrete and steel, 4 stories, 42x75 feet, slag roof, pine, oak and cement floors, electric lighting, metal lath, tile, marble and terrazzo work, iron work. Bids due May 14th.

**North Rosedale School,** Thirty-sixth and Cramer streets, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Education, Room 12, City Hall, Camden, N. J., Elwood C. Bunting, Chairman of Building Committee. Reinforced concrete, brick, cut stone and steel, 3 stories, 159x95 feet, slag roof, concrete and pine floors, metal ceilings, waterproofing and damp-proofing, iron work, bond, hollow metal skylights, rolled steel sash, tile work (plumbing,

heating and lighting separate bids). Owners taking bids due May 21st at 2 P. M.

**High School (add.) and Grade School,** Moorestown, N. J. Architect, Frank Sanders, Pennsylvania Bank Building, Chester, Pa. Owners, Board of Education of Moorestown, Township, Leidy E. Klotz, District Clerk, Moorestown, N. J. Brick. Plans in progress.

**Schools (2),** Cedar Brook and Rosedale, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, H. Angelow, Berlin, N. J. Brick, 1 story, composition roof, pine floors. All bids rejected. Revised plans in progress. Architect will take new bids.

**Double Residence,** Trenton, N. J. Architects, William W. Slack & Son, St. Regis Theatre Building, Trenton. Owner, W. C. Slack, 900 Riverside Drive, Trenton, N. J. Stone, 2½ stories, 50x70 feet, slate roof, hardwood floors, tile and marble work, vacuum heat, electric light. Plans in progress.

**Residences (2),** Trenton, N. J. Architects, William W. Slack & Son, St. Regis Theatre Building, Trenton. Owner, Walter C. Slack, 900 Riverside avenue, Trenton, N. J. Brick, 2½ stories, 32x32 feet, slate roof, hardwood floors, tile work, vacuum heat, electric light. Plans in progress.

**Infirmiry (add.),** Trenton, N. J. Architect, A. B. Mills, State Capitol, Trenton, N. J. Owners, State Home for Girls, Dr. Harris, Trenton, N. J. Brick, hollow tile, 2½ stories, 26x40 feet, slate roof, tile and marble work, fireproof floors, waterproofing, dampproofing, iron stairs, ornamental iron work. Plans in progress.

**High School,** Hightstown, N. J. Architects, Guilbert & Betelle, 546 Broad street, Newark, N. J. Owners, Board of Education, Hightstown, N. J. Brick, concrete, steel, limestone and bluestone, 2 stories and basement, 160x45 feet, auditorium 72x61 feet, slag roof, cement floors, roof ventilators, metal weather strip, waterproofing and dampproofing, terra cotta, iron work and stairs, kalamain doors, rolled steel skylights, metal lath (heating, electric work and plumbing separate bids). Bids due May 15th.

**Apartment and Store,** Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Edward Cook, care of architect. Steel, semi-fireproof, 4 stories, 42x75 feet, slag roof, hardwood and reinforced concrete floors (heating, electric and plumbing reserved), metal lath, tile, marble and terrazzo work, cut stone. Architect taking bids due May 14th.

**Residence,** Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owner, Dr. W. A. Taylor, 68 Prospect street, Trenton, N. J. Frame, 2½ stories, 28x28 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Architect taking bids due May 11th.

**Segregation Cottage,** Jamesburg, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Home for Boys, C. Derrick, Jamesburg, N. J. Brick, reinforced concrete, 1 story, 60x92 feet, slate and slag roof, concrete floors, electric light, tile and marble work, rolled steel sash. Architects taking bids due May 18th.

**Office (add.),** Hanover street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, W. M. Dickinson Co., 145 East Hanover street, Trenton, N. J. Brick, steel, 1 story, 18x25 feet, slag roof, hardwood floors, heating extension, electric light, metal lath, rolled steel skylights. Architect ready for bids due May 11th.

**Stores (4), Apartments (4),** Vineland, N. J. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, N. De Lemmo, 774 South Sixth street, Philadelphia, and Vineland, N. J. Brick, 2 stories, 80x80 feet,



slag roof, pine and hardwood floors, hot water heat, electric lighting, tile work, flush bulks. Plans completed. Ready for bids.

**Residence**, Kings Grove, Bridgeport, N. J. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Anthony Beato, 2976 Tilton street, Philadelphia. Brick, 2 stories, 18x50 feet, slag roof, pine floors, pipeless heat, electric lighting. Plans in progress.

## New Jersey

### Contracts Awarded

**Elementary and High School**, Oxford, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owners, Oxford School Board, R. Trexler, Clerk, Oxford, N. J. Fireproof, brick, steel, 2 stories, 95x170 feet, slate roof, hardwood floors (heating, electric work and plumbing reserved), hollow tile, metal lath, tile, marble and terrazzo work, safety treads, roof ventilators, waterproofing and dampproofing, bond, skylights, iron stairs. Contract awarded to Karno-Smith Const. Co., Broad Street Bank Building, Trenton, N. J. Heating and ventilating awarded to Osman Co., Hackettstown, N. J. Plumbing awarded to Fred. Snyder, Phillipsburg, N. J. Electric awarded to Jackson Electric Company, Trenton, N. J.

**Bank and Office Building**, 26-28-30 West State street, Trenton, N. J. Architect, Alfred Bossom, 680 Fifth avenue, New York. Owners, Trenton Trust Co., H. A. Smith, president, on premises. Stone, brick, steel, reinforced concrete, 14 stories, 65x145 feet, flat roof, hardwood floors, electric light, elevators, roof ventilators. Contract awarded to Karno-Smith Const. Co., Broad Street Bank Building, Trenton, N. J.

**Bank Building**, Gloucester, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Gloucester City Trust Co., Gloucester, N. J. Brick, cut stone and reinforced concrete, 1 story, 70x48 feet, slag roof, cement floors, waterproofing and dampproofing, iron work, bond, tile work, metal lath, steam heat, electric light. Contract awarded to J. M. Yardley, 1716 Sansom street, Philadelphia.

**Club House**, Princeton, N. J. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, Cloister Inn Club, Princeton, N. J. Brick, 2½ stories, 67x84 feet, slate roof, hardwood floors, vapor vacuum heating, electric lighting. Contract awarded to Adams & Faber, 5 Hineck Building, Montclair, N. J.

**School**, Lapateong, N. J. Architect, E. H. Wenzelberger, 3 Centre Square, Easton, Pa. Owners, Lapateong School Board, William Debbitt, secretary, Lapateong, N. J. Brick, 2 stories, 45x140 feet, slate roof, hardwood floors (heating, plumbing and electric light reserved). Contract awarded to Thomas Bana-han, Phillipsburg, N. J.

## Miscellaneous

### Construction News

**Bank Building**, Newark, Delaware. Architect, Robert L. Harris, 13 West Saratoga street, Baltimore, Md. Owners, Farmers' Trust Co., M. Daugherty, Newark, Del. Brick, stone, steel, slate roof, tile and marble work. Plans in progress.

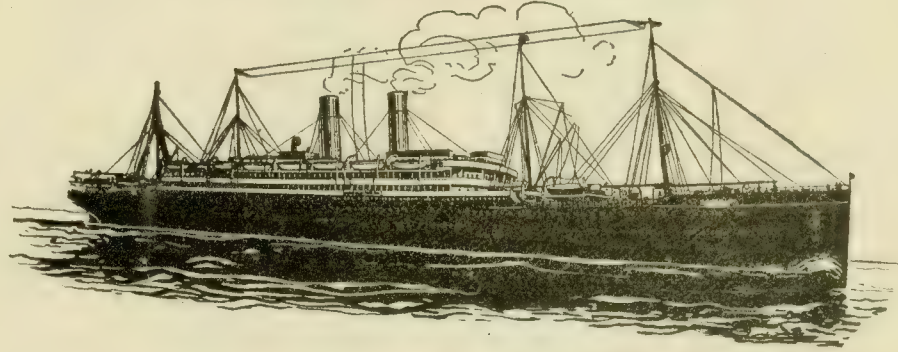
The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

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telligent persons who wish to visit the battlefields of France, the Shakespeare country, Scandinavia, the Land of the Midnight Sun, etc. A chance of a lifetime! So it would seem; but it is more than that. The company is building for a permanent business, setting a new standard of high-class ocean travel on a one-class basis. That this can be done at a fair margin of profit has already been proved and is further outlined in our prospectus. You'll find it extremely interesting.

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## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 2, 1923. Sealed Proposals will be opened in this office at 3 P. M., May 25, 1923, for building roads and walks on the site of the United States Veterans' Hospital, at Oteen, N. C., in accordance with the specification and drawings, copies of which may be had from the Custodian at the hospital site, Oteen, N. C., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 3, 1923.—Sealed Proposals will be opened in this office at 3 P. M., May 24 1923, for painting and repairs at the United States Court House and Post Office at New York, N. Y. Specifications may be obtained from the Supervising Chief Engineer, 731 Custom House Building, New York, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

## BUILD BETTER HOMES AND REDUCE FIRE LOSSES

In its campaign for better homes, the National Lumber Manufacturers' Association has recently published a booklet containing much valuable data intended to emphasize the need of more efficient building construction, with special regard for the fire resistive features of a home.

It is a shameful indictment against the good name of this country, the lumber manufacturers say, that during the past fourteen years period fire losses were 28.1 per cent. of the value of new building construction. In 1920, although an abnormal amount of building was done, the fire losses were 23.5 per cent. of the value of new buildings. In other words there has been destroyed, annually, the equivalent of practically one-quarter of the amount expended for new construction. Fire losses in the United States in 1921 were more than half a billion dollars. Fire loss adjustments made by insurance companies in the United States and Canada during the past fourteen years amounted to \$3,410,752,600. The average yearly loss was \$243,625,200.

The loss for 1920 reached the staggering total of \$330,853,925, an amount which, if devoted to the erection of homes costing \$4000 each, would build enough houses to line both sides of a street stretching from New York to Chicago. Startling as these losses are, they do not tell the whole story. They represent only the actual insurance adjustments made. They do not take into account losses due to the fact that buildings are seldom insured for more than 80 per cent. of their full value, nor do they include losses not covered by in-

surance. The insurance adjustments made probably do not exceed 70 per cent of actual fire losses, including both insured and uninsured.

In explaining the purpose of this booklet, which is the first of a series on the subject of "Fire Prevention," the National Lumber Manufacturers' Association states that it hopes to bring before architects, home builders, owners, and occupants the truth that each is his brother's keeper; that no individual can live to himself alone; that all have a responsibility to the community at large. Personal liability for preventable fires is a practical application of that responsibility.

Other chapters to be published by the Association under copyright will be as follows: "Fire-Stopping in Dwelling Construction," being a description of various simple and inexpensive methods by which the spread of fire may be checked and confined to the space in which it originates; "Chimneys, Flues, and Fireplaces;" and "Household Heating and Lighting Hazards."

—*The Architect and Engineer.*

## BUREAU OF STANDARDS TO MEASURE FATIGUE OF STONE

It has long been known that a load much below its apparent breaking strength would cause failure of stone after a long time. The Bureau of Standards is now undertaking a series of tests to determine the extent of this effect and to see how much load can safely be borne by stone for indefinite periods.

Samples of stone will be tested both in straight compression and in bending. Loads will be put on and left there, and the deflection of the stone will be measured from time to time.

Marble has the peculiar quality of sagging slowly, even under its own weight. Thus many cases are known in which marble slabs placed in horizontal position for a hundred years or so have sagged down several inches; and thin tombstones of marble have bent over.

## DIAGONAL REINFORCEMENT SOMETIMES DESIRABLE IN CONCRETE SLABS

It would be natural to suppose that the most effective way of using steel for reinforcing concrete floors and other slabs would be to place it in the direction in which the stress was applied, and at right angles to the direction of probable cracks. Mathematical analysis of the problem confirms this assumption.

In the design of concrete ships, however, there were other considerations

which made it seem desirable to place the steel diagonally with respect to the direction in which the cracks were expected. Accordingly tests were made at the Bureau of Standards on slabs in which different types of reinforcement were used. These tests confirm, in a general way, the correctness of the mathematical analysis and show that the reinforcement should be laid parallel with the span and not at an angle with it; unless there are other factors, such as shrinkage in setting or expansion and contraction with change in temperature, which tend to produce cracks at right angles to those due to load stress.

But shrinkage and expansion occur in all concrete structures and frequently transverse reinforcement is required. Cracks from such causes may be prevented by the use of bars laid at an angle with the span, or by mat reinforcement.

In these tests it was found that the use of reinforcement having diamond shaped meshes distributed the cracks effectively and kept them smaller than was the case with the other types of reinforcement tested. About a 12-inch lap where the ends of these sheets of expanded metal joined was found necessary to prevent slipping of these splices.

The early close of the war rendered it unnecessary to apply the results of these tests to concrete ships; but the information acquired is likely to be of value in the design of buildings.

The results of these tests are published in Technologic Paper No. 233 of the Bureau of Standards, entitled "Tests of Heavily Reinforced Concrete Slab Beams: Effect of Direction of Reinforcement on Strength and Deformation." Copies of this paper can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. The price is 15 cents.

**Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!**

**Ideals are like stars; you will not succeed in touching them with your hands. but like the seafaring man on the desert of waters, you choose them as your guides. and, following them, you reach your destiny.—Carl Schurz.**



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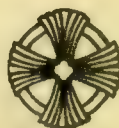
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Entered at the Philadelphia Post Office as Second-Class Matter

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May 16, 1923

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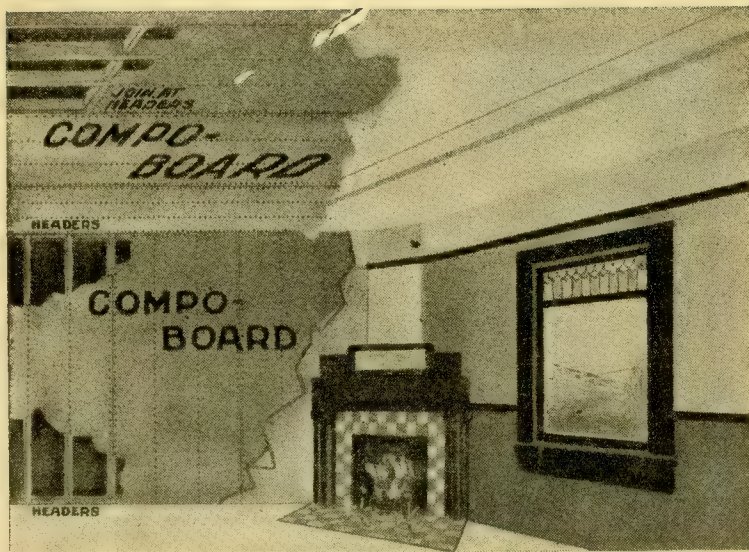
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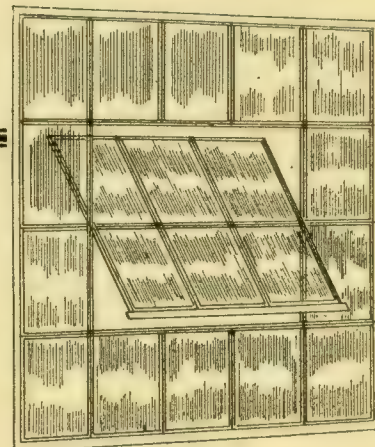
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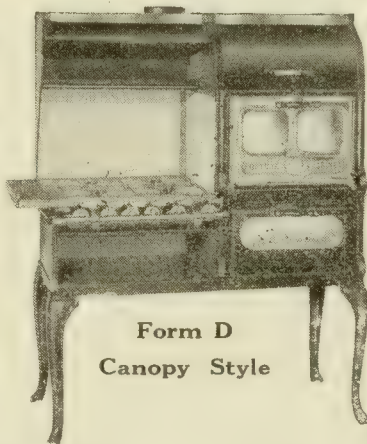
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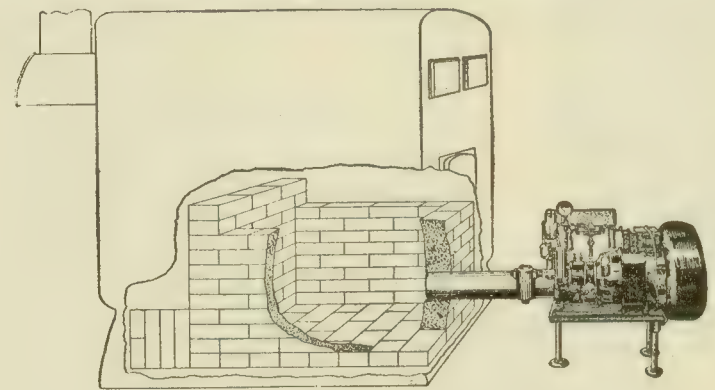
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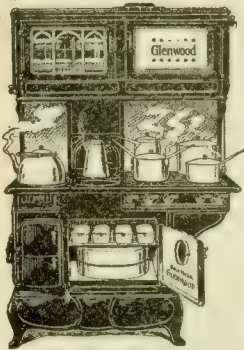
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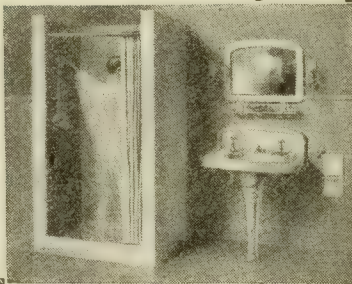
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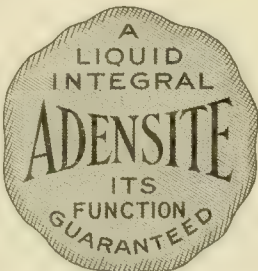
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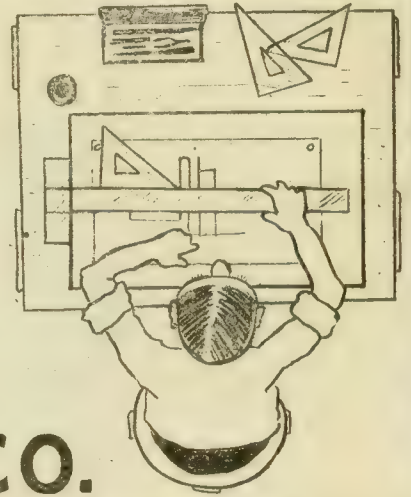
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 20

PHILADELPHIA  
May 16, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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Advertising Manager, L. A. DeLone

### SUBSCRIPTION RATES

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To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

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Subscriptions not discontinued at expiration  
unless so ordered

Entered at the Post Office at Philadelphia as  
Second Class Matter

## Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Manufacturing (alts. and add.),** Northeast Corner Thirty-second and Spring Garden streets, \$40,000. Architects, William Steele & Sons, 219 North Broad street, Philadelphia. Owners, H. D. Justice & Son, on premises. Brick, 3 stories, 43x50 feet, slag roof, general alterations. Engineers will build.

**Residence,** East side Dorcas street, North of Cottman street, \$4,500. Architect, private plans. Owner, Chris Strasdin, 1213 Cabot street, Philadelphia. Frame, 2 stories, 18x36 feet, hardwood floors, tile work, hot water heat, electric light. Owner will build.

**Store Building (alts.),** Southwest Corner Tenth and South streets. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, J. Friedman, care of architect. New store fronts, copper bars, plate glass, lighting and heating extensions, plumbing. Plans in progress.

**Loft Building (alts.),** 1313 Vine street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, S. Mignogne, care of architect. Brick, 18x75 feet, new front, steam heating, electric lighting, plumbing, cement floors, steel work, general alterations. Plans in progress.

**Auto Show Room and Apartments (alts. and add.),** 5811 Torresdale avenue. Architect, Edward J. Shooppe, 315 South Fifteenth street, Philadelphia. Owner, Charles Fullmer, on premises. Brick, cut stone and steel, 2 stories, 30x40 feet, slag roof, hardwood and composition floors, hot water heat, electric lighting, plate glass, copper bars. Plans in progress. Architect will be ready for sub-bids in one week.

**Apartment House,** York road below Bristol street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia.

Owner, Lawrence J. Kaluder, Crozer Building, Philadelphia. Brick and stucco, 3 stories, 55½x118 feet, slag roof, electric lighting, pine and hardwood floors. Plans in progress.

**Main Building and Nurses' Home,** Kensington avenue, Huntingdon and A Sts., Philadelphia. Architects, Stewardson & Page, Otis Building, Philadelphia. Owners, Episcopal Hospital, K. Leiter, superintendent, Front and Lehigh avenue, Philadelphia. Brick. Sketches drawn. Too early for details.

**Church,** Frankford, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, First Baptist Church, Frankford, Philadelphia. Stone, 1 story and gallery, 55x55 feet, slate roof. Preliminary plans in progress.

**Apartment House (alts. and add.),** Greene and Tulpehocken streets. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owner, C. E. Lloyd, 6515 North Eighth street, Philadelphia. Brick and stucco, 4 wing additions, 2 stories, 12x35 feet, slate roof, hardwood floors, dumb waiters, heating and lighting extensions, tile work, terracing, grading and painting, paving. Plans in progress.

**Bungalow,** Tacony, Philadelphia. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, Fred W. Kugler, Fox Chase, Philadelphia. Frame, stucco and brick, 1½ stories, 32x46 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

**Stores and Apartments (alts. and add.),** Southeast Corner Twenty-third and Lombard streets. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owner, A. E. Jackson, on premises. Brick and stone,

2 stories, 20x50 feet, slag roof, pine and composition floors, steam heat, electric light extension. Plans in progress.

**Apartment House (alts. and add.),** 182-84 Huntingdon street. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owner, M. C. Orlowitz, 2556 Kensington avenue, Philadelphia. Interior alterations, brick, add. 3 stories, 15x30 feet, slag roof, pine and composition floors, steam heat, electric lighting, plumbing, general paving. Plans in progress.

**Church, Sunday School and Auditorium,** Holmesburg, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owners, Mt. Zion Baptist Church, Holmesburg, Philadelphia. Brick, 1 story, 92x40 feet, slate roof, pine floors, steam heating, electric lighting. Plans in progress.

**Residences (3),** Warnock street near Luzerne street. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick, 2 stories. Architect will be ready for bids in a few days.

**Apartment House (alts.),** 1603 Poplar street, Philadelphia. Architect, L. V. Scherr, 1036 Drexel Building, Philadelphia. Owner, Harry Goldberg, 305 Cherry street, Philadelphia. Brick, steel and cut stone, slag roof, hot water heating, electric lighting, plumbing, tile and marble work, plastering, carpentry, mill work, hardware, iron work. Owner is taking sub-bids due as soon as possible.

**Residence (alts.),** Overbrook, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building. Owner, J. J. Caskie, Simpson Estate, Overbrook. Brick, concrete, stone and steel, slate roof, composition, oak and pine floors, electric lighting, metal lath,

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plastering, tile work, rolled steel sash, iron work, plumbing. Architect taking bids.

**Church**, Seventh street and Northeast Boulevard, Philadelphia. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Church, Rev. E. C. Sandt, 5203 North Carlisle street, Philadelphia. Stone, 1 story and basement, slate roof, steam heating, electric lighting. Architect will be ready for bids in about one week.

**Operation of Residences**, Sixty-second and Lebanon avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Martin McWilliams and Joseph A. Moloney, 6308 Sherwood road, Overbrook, Philadelphia. Stone, brick and stucco, 3 stories, 16x50 feet, slate, tin and slag roof, hardwood floors, central steam heat, electric lighting, tile and marble work, cement work, metal lath, garages in basement. Joseph A. Moloney taking sub-bids.

**Storage House**, 2911-13 Ellsworth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John J. Wilson, on premises. Brick, 2 stories, 28x50 feet, slag roof, cement floors, electric lighting. Owner will build and is taking sub-bids.

**Residence (alts. and add.)**, 332 South Nineteenth street, Philadelphia. Architect, private plans. Owner, Dr. Martin B. Culver, on premises. Plastering, plumbing, heating, hardwood and cork floors, tile work. George Kessler Cont. Co., 1733 North Marvine street, taking sub-bids.

**Stores (4), Apartments (8)**, Southeast Corner Fortieth and Spring Garden streets. Architect, M. M. Boonin, 1506 North Alden street, Philadelphia. Owners, Dimmerman, Steinberg & Miller, Fifty-fourth and Woodland avenue (site of building operation). Stone, brick and steel, 3 stories, 30x67 feet and 16x67 feet, slag roof, pine, oak and mineral floors, plate glass, cement work, metal ceilings, fire doors, hollow metal bay windows, imitation tile, plumbing, electric light, hot water heat. Owner taking sub-bids due as soon as possible.

**Swimming Pool**, Thirty-second and Ridge avenue, Philadelphia. Architect, City Architect J. P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Recreation. Brick, limestone, reinforced concrete and cut stone, slag roof, cement floors, waterproofing, iron work, floor hardener, bond, hollow metal doors, tile work, metal lath (lighting and plumbing separate bids). Owners will be ready for bids in a few days.

**Fire Headquarters**, 1517 Filbert street, Philadelphia. City architect, John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Safety, Bureau of Fire, City Hall. General alterations. Too early for details.

**Group of Buildings (alts.)**, Independence Hall, Philadelphia. City architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property. Brick, steel, carpentry, painting, glazing, metal lath, plastering, marble work, bond, iron work (lighting separate bid). Owners ready for bids in a few days.

**Bank Building**, Manheim and Wayne avenue, Germantown. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Engineer, Eugene S. Powers, 315 South Fifteenth street, Philadelphia. Owners, Manheim Trust Co., Harvey L. Elkins, Delmar Morris, Germantown. Brick, steel, reinforced concrete and limestone, 2 stories and basement, 37x63 feet, slag roof, maple, marble and composition floors, vapor heating, electric lighting, metal lath, tile work, fire and kalamein doors, bank fixtures, iron work, Wil-

liam J. Gruhler Co., 219 High street, taking sub-bids.

**Church**, Thirteenth and Ruscomb streets, Philadelphia. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Muhlenberg Memorial Lutheran Church, Rev. C. P. Swank, 4922 Camac street, Philadelphia. Stone, 1 story and basement. Owners taking bids due May 25th at 6 P. M.

**Loft Building**, Fifth street to Lawrence, South of Girard avenue. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, Michael Rock, 3148 North Broad street, Philadelphia. Brick, steel and stone, 2 stories and basement, 229x35x28 feet, slag roof, plank floors, elevator, steam heat, electric light, rolled steel sash. Owner taking bids due as soon as possible.

**Apartment House**, Medary and Camac streets, Philadelphia. Architect, Joseph Brinton Young, 2006 West Tioga street, Philadelphia. Owner, Roy A. Fahs, 2709 West Lehigh avenue, Philadelphia. Brick, 2 stories, 18x66 feet, tile roof, oak, pine and composition floors, iron work, bond, steam heat, electric light. Owner taking bids due May 19th.

**Residence**, Horton street, Roxboro, Pa. Architect, private plans. Owner, Robert Curry, 611 Rector street, Roxboro. Brick and stucco, 2½ stories, 17x36 feet, slate roof, oak and pine floors, electric light, tile work. Owner taking bids due May 18th.

**School and Chapel**, Mascher and Tioga streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Hugh's Roman Catholic Church, Rev. Hugh J. Dale, 144 East Allegheny avenue. Brick, cast cut stone, reinforced concrete and granite, 3 stories and basement, 168x60 feet, slag roof, cement and pine floors, roof ventilators, metal ceilings, waterproofing, iron stairs, bond, rolled steel sash, tile and marble work, metal lath, electric lighting, steam heating, alternate for face stone. Architect taking bids due May 17th.

**Miscellaneous Work**, Department of Wharves, Docks and Ferries. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, Pier No. 4, South Wharves, foot of Chestnut street. Schedules A, B, C and D. Electric, Philadelphia Steam Heating Co., 3318 Lancaster avenue, \$18,615. Sprinklers, N. Connolly, 1414 North Eighteenth street, \$45,449. Water supply and plumbing, N. Connolly, 1414 North Eighteenth street, \$67,000. Steam and hot water heating, N. Connolly, 1414 North Eighteenth street, \$8,133. Schedule E, elevation of wall, rip-rap, filling and deck paving for improving and enlarging Allegheny Avenue Wharf, No. 127 North Delaware River. Harry H. Eyre, 1212 North Delaware avenue, Philadelphia, \$14,448.44.

**Residences (46)**, Fifty-third and Pentridge streets, Philadelphia, \$344,000. Architect, private plans. Owner, David L. Sloan, 2061 North Sixty-second street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**Residences (20)**, (15) 6713 to 41 North Gratz street, and (5) 1811 to 1819 Sixty-seventh avenue, Philadelphia, \$103,500. Architect, private plans. Owners, Max Chipin, 1024 Rockland street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Warehouse (repairs)**, 16 to 20 South Sixth street, Philadelphia, \$40,000. Architect, private plans. Owners, Garrett & Buchanan Co., 12 South Sixth street, Philadelphia. General fire repairs, carpentry, mill work, plastering, painting, glazing. Owners will build.

**Garage**, North side Cantrell street, East of Chadwick street, \$16,000. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Otto Zachar, 1630 West Passyunk ave-

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nue, Philadelphia. Brick, 2 stories, 85x40 feet, 32x6 feet, slag roof, cement floors, steam heat, electric light. Owner will build.

**Residences (5)**, West side Sydenham street, North of Courtland, \$4,600 each. Architect, private plans. Owner, William Moore, 1028 Duncannon avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 11x8 feet, slag roof, electric lighting, hot water heating. Owner will build.

**Residence**, Northeast Corner Castor Road and Rhaun street, Philadelphia, \$4,500. Also **Residence**, East side Castor Road, South of Rhaun, \$4,000. Architect, private plans. Owner, W. T. Garrison, 1338 North Tenth street, Philadelphia. Frame, 2 stories, 22x24 feet, and 1 story, 29x40 feet, hardwood floors, hot air heating, electric lighting. Owner will build.

**Garage (add.)**, Northwest Corner Fourth and Sigel streets, Philadelphia, \$5,000. Architect, private plans. Owner, Jacob Bender, 1817 South Fourth street, Philadelphia. Brick, second story add., 45x80 feet, slag roof, electric work. Owner will build.

**Residences (2)**, 4694-96 Wilde street, Philadelphia, \$4,500 each. Architect, private plans. Owner, James Stewart, 4554 Manayunk avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residences (2)**, 5913-15 Hegerman street, Philadelphia, \$4,000 each. Architect, private plans. Owner, Martin Kasparaitia, 1004 Reno street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, electric lighting, hot water heating. Owner will build.

**Warehouse**, 2911-13 Ellsworth street, Philadelphia, \$3,000. Owner, John J. Wilson, Twenty-ninth and Ellsworth streets, Philadelphia. Brick, 2 stories, 28x49½ feet, slag roof, pine floors, electric work. Owner will build.

**Garage**, Southeast Corner Jackson and Higbee streets, Philadelphia, \$2,000. Architect, private plans. Owner, L. Best, on premises. Brick, 1 story, 16x32 feet, slag roof, cement floors. Owner will build.

**Residence and Store (add.)**, 1544 Wallace street, Philadelphia, \$2,000. Architect, private plans. Owners, Carr, Courtney & Ingle, Twenty-third and Green streets, Philadelphia. Brick, 1 story, 18x29 feet, slag roof, pine floors, electric lighting. Owners will build.

**Residences (6)**, East side Rockwell avenue, South Oxford avenue, \$5,500 each. Architect, private plans. Owners, Ryan's Land & Const. Co., 1006 Cottman street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**Residences (47)**, Rosehill, Ormes and Ruscomb streets, \$190,400. Architect, private plans. Owners, Izenberg & Lieberman, 2958 Aramingo avenue, Philadelphia. Brick, 2 stories, (3) 16x49 feet, (44) 15x30 feet, 12x10 feet, hot water heat, electric light. Owners will build.

**Residences (16)**, South side Rector street, West of Manayunk avenue, \$4,500 each. Architect, private plans. Owners, C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia. Brick, 2 stories, 20x33 feet, slag roof, hardwood floors, hot water heat, electric light. Owners will build.

**Garage**, 2030 Upland Way, Philadelphia, \$4,000. Architect, private plans. Owner, Chris. White, on premises. Brick, 1 story, 25x110 feet, slag roof, cement floors, electric light. Owner will build.

**Residences (4)**, West side Shelmire street, South of Princeton avenue, \$4,000 each. Architect, private plans. Owner, Michael Stevens, 916 Vincent street, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, South side Afton street, East of Rising Sun avenue, \$4,500. Architect, private plans. Owner, Herman Guenzel, 4136 North Marshall street, Philadelphia. Frame, 2 stories, 24x36 feet, hardwood floors, electric lighting. Owner will build.

**Garage**, 223-27 North Twenty-second street, Philadelphia, \$20,000. Architect, private plans. Owners, Jesse L. Shepherd, Middletown, Del. Brick, 1 story, 50x186 feet, slag roof, cement floors, steel sash, electric light. Owners will build.

**Residence**, 5462 Diamond street, Philadelphia. Also **Garage**, \$16,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Hugh C. Forbes, 5400 Diamond street, Philadelphia. Brick, 3 stories, 20x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garage, 1 story, 18x20 feet, cement floors. Owner will build.

**Miscellaneous Work, etc.**, Philadelphia.

Furnishing and supplying scientific equipment, Laboratory of Hygiene, Second and Luzerne. Food cabinets and food containers. Plans obtainable from Director's Office, Room 584, City Hall. Furnishing and installing in complete working order, (2) refrigerators. Plans may be secured from Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Health and Hospitals, Room 584, City Hall. Owners taking bids due May 22nd at noon, standard time.

**Grading and Paving**, Philadelphia. Owners, City of Philadelphia, Bureau of Highways, City Hall. Owners taking bids due May 18th at 11 A. M., standard time. Grading—Stockley street, from Westmoreland street to Hunting Park avenue. Asphalt Paving—Eastburn avenue, from Wister street to Gerry street, 1615 square yards; Mentor street, from C to D street, 916 square yards; Olney avenue, from Broad street to Fifteenth street, 8100 square yards; Ruscomb street, from Seventeenth street to Eighteenth street, 1376 square yards; Sparks street, from York Road to Broad street, 1073 square yards; Tioga street, from Tulip street to Aramingo avenue, 888 square yard; York Road, from Loudon street to Duncannon avenue, 5683 square yards; Sixty-seventh avenue, from Sixteenth street to Eighteenth street, 3869 square yards. Vitrified Block—Lambert street, from Church Lane to Spencer street, 965 square yards; Woodstock street, from Church Lane to Spencer street, 690 square yards.

**Miscellaneous Work**, Philadelphia. Owners, City of Philadelphia, Bureau of Surveys, Philadelphia. Curbing and paving Delaware avenue, from Snyder avenue to Porter street. Low bidders: Acchione & Canuso, 804 South Twelfth street, Philadelphia, \$194,794.25. Paving intersections on Delaware avenue, from Snyder avenue to Bigler avenue. Low bidders: Acchione & Canuso, 804 South Twelfth street, Philadelphia, \$61,624.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residence**, South side Cheltenham avenue, West of Seventh street, \$30,000. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, George W. Keeler, 305 East Upsal street, Philadelphia. Stone, 3 stories,

38x25 feet, 27x11 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to John G. Bewig-house, 4539 Hicks street, Philadelphia.

**Residence**, West side Twelfth street, North of Sixty-fifth avenue, Philadelphia, \$12,600.

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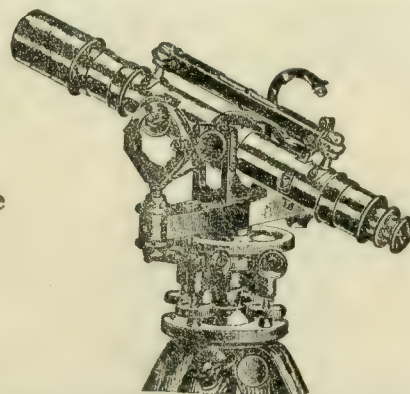
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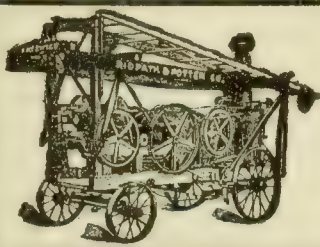
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Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 3 stories, 26x36 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Contract awarded to McClintock & Weaver, 24 West Phil-Elena street.

**Manufacturing Building**, 1609 Vine street, Philadelphia, \$12,600. Owner, Maria Lucci, 1603 Ellsworth street, Philadelphia. Brick, 2 stories, 18x125 feet, slag roof. Contract awarded to L. Caporale, 1431 Dickinson street, Philadelphia.

**Residence**, 6707 North Seventh street, Philadelphia, \$9,000. Architect, private plans. Owner, C. H. Anthony, 6300 North Eleventh street, Philadelphia. Hollow tile and stucco, 3 stories, 25x31 feet, hardwood floors, tile work, electric lighting, hot water heating. Contract awarded to S. G. Humphreys, 1914 North Thirteenth street, Philadelphia.

**Parsonage**, Indiana avenue and Mercer street, Philadelphia, \$8,000. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Port Richmond Methodist Episcopal Church, premises. Brick, 2 stories, 25x28 feet, slag roof, pine floors, steam heating, electric lighting, tile work, iron work. Contract awarded to Edward J. Carson, 3072 East Thompson street.

**Offices and Apartments (alts.)**, 1635 Spruce street, Philadelphia. Architect, Edward J. Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, Julia C. Horner, care of architect. Brick work, cut stone and steel, slag roof, oak and composition floors. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

**Building (alts.)**, 1603 Vine street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Mary Lucci, 1603 Ellsworth street, Philadelphia. Contract awarded to Frank Lucci, 1603 Ellsworth street.

**Apartments (alts.) and New Garage**, 5211 Wayne avenue, \$51,000. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, name withheld. Contract awarded to John Roman, 414 East Brighthurst street.

**Administration Building**, Richmond and Wheatshaf Lane. Architect, private plans. Owners, Department of Public Works, Bureau of Surveys. Brick, limestone, steel, 2 stories and basement, 56x43 feet, slag roof, tile and granolithic floors, hollow tile, iron work, rolled steel sash. Contracts awarded to: S. Sydney Lewis, Real Estate Trust Building, Philadelphia, \$59,178. Electric, Elias Nussbaum & Brothers, 2023 Sansom street, \$2,348. Heating, A. McClintock, 1020 Callowhill street, \$2,523.

**Stanfield Playground (alts.)**, Front and Lombard streets, \$50,000. Architect, John T.

Windrim, Commonwealth Building, Philadelphia. Owners, Estate of R. Smith, care of Fidelity Trust Co., 325 Chestnut street. Brick, cut stone and steel, 3 stories, 68x54 feet, slag roof, concrete and pine floors, waterproofing, iron work, steam heat, electric light, metal lath, tile and marble work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street.

**Church (add.)**, Twenty-eighth and Lehigh avenue, Philadelphia. Architects, Street & Stackhouse, 1120 Locust street, Philadelphia. Owners, Northwest Memorial Church, on premises. Brick, stone and steel, 1 story additional, 72x78 feet, slag and slate roof, pine and composition floors, roof ventilators, iron work, bond, steam heat, electric light, metal lath, tile. Contract awarded to Thomas C. Trafford, 1613 Sansom street.

**High School (Junior)**, Memphis, Ann and Livingston streets. Owners, Board of Education, Nineteenth above Chestnut street. Contracts awarded to Ketcham & McQuade, 1029 Brown street, \$872,000. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, \$40,981. Electric, Ross Electric Co., Beach and Brown, \$33,600. Heating, Austin, Gorham & McIlvain, 1816 Ludlow street, \$89,680. Ventilating, Thompson Brothers, 520 Buttonwood street, \$3,700. Cabinet work, N. Sneltenburg, Twelfth and Market streets, \$15,900.

**Residence and Store**, Southwest Corner Germantown avenue and Morris street, \$15,000. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owners, Matuck, Ignatio & Weinick, care of architect. Brick, 3 stories, 16x49 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Contract awarded to Jacob Ignator, 1101 North Forty-second street, Philadelphia.

**Residences (3)**, Oak Road and Midvale avenue, and Mt. Airy avenue and Emlen street, Philadelphia, \$55,000. Architect, A. T. Smith, Otis Building, Philadelphia. Owner, Geo. H. English, 6709 McCallum St. Stone, 2 stories, 48x26 feet, 43x20 feet and 19x39 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Jacob K. Hoff, 3531 North Seventh street, Philadelphia.

**Settling Tank**, Manayunk, Philadelphia. Architect, private plans. Owners, McDowell Paper Mills, Manayunk, Philadelphia. Reinforced concrete, waterproofing, 27,800-gallon capacity. Contract awarded to C. C. Eddleman, 1627 Sansom street.

**Residences (2)**, Wissahickon avenue and Cliveden street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Joseph Biberman, 607 West Upsal street, Philadelphia. Stone, 2½ stories, 42x23 feet, slate roof, oak and pine floors, tile work, iron work (heating, plumbing and lighting reserved). Contract awarded

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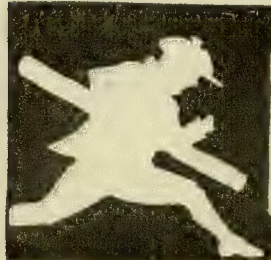
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**Office Building**, 1805-07 Walnut street, Philadelphia. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Presbyterian Ministers' Fund for Life Insurance, Craig N. Liggett, Chairman of Building Committee, Witherspoon Building. Brick, cut stone and reinforced concrete, 3 stories, 125x44 feet, slag roof, cement and pine floors, hollow tile, elevators, roof ventilators, waterproofing, iron stairs and work, bond, kalamein doors, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath, steam heat, electric lighting. Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

**Factory**, Stenton avenue, between Wyoming and Loudon streets, Germantown. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Apex Machine Co., 2801 Susquehanna avenue. Brick, steel, reinforced concrete, 2 stories, 71x163 feet, slag roof, cement, maple, composition, wood block floors, safety treads, iron work, floor hardener, bond, fire and kalamein doors, rolled steel sash, metal lath (sprinklers, heating, electric work and plumbing separate bids). Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

**Residence**, Gates street, Roxboro, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owners, E. M. Simpson, Jr., Roxboro, Pa. Frame and stucco, 2½ stories, 28x36 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Carl F. Hirsch, Conshohocken, Pa.

**Manufacturing Building (add.)**, Northwest Corner Eightieth and Laycock avenue, \$15,000. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, John M. Kennedy, Jr., 406 South Van Pelt street, Philadelphia. Brick, 2 stories, 50x91 feet, slag roof, steam heat, electric lighting, cement and pine floors. Contract awarded to Long & White, 44 Armat street, Philadelphia.

**Tenement (add. and alts.)**, 3411 Powelton avenue, \$12,000. Architect, I. Demsschick, 1701 Chestnut street, Philadelphia. Owner, Samuel Willis, 407 Lincoln Building, Philadelphia. Brick, 1 story, 40x24 feet, and 1 story, 19x15 feet, slag roof, hardwood floors, electric lighting, tile work, alterations. Contract awarded to Harry Platt, 1627 Sansom street, Philadelphia.

**Offices and Apartments**, Frankford, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Smith & McGowan, 813 East Allegheny avenue, Philadelphia. Brick and terra cotta, 3 stories. Contract awarded to John Fotheringham, Castor and Arrott streets.

**Residences (2)**, North side Afton street, East of Veree Road, \$14,000. Architect, private plans. Owner, Anthony Matonis, 2309 East Somerset street, Philadelphia. Brick, 2

stories, 24x32 feet, 14½x9 feet, electric light, hardwood floors, tile work. Contract awarded to Joseph Maulbecker, 1856 East Westmoreland street.

**Apartment (alts.)**, Northeast Corner Columbia avenue and Bouvier street, \$10,500. Architect, private plans. Owner, Henry Melrose, 1411 York street, Philadelphia. General alterations, carpentry, mill work, painting. Contract awarded to D. Wittenberg, Holmes, Pa.

**Residence**, North side Hershell Road, West of Southampton Road, \$14,000. Architect, private plans. Owner, Harry B. Faunce, 2523 East Norris street, Philadelphia. Frame and stucco, 2 stories, 32x45 feet, hot water heat, electric light. Contract awarded to William D. Bubeck, Somerton, Philadelphia.

**Office and Show Room (add. and alts.)**, 2933 E street, \$5,000. Architect, private plans. Owner, Nathan Kasawitz, 3040 Kensington avenue, Philadelphia. Brick, 1 story add., 18x70 feet, general alterations. Contract awarded to Roland Bale, Jr., 1849 East Ontario street.

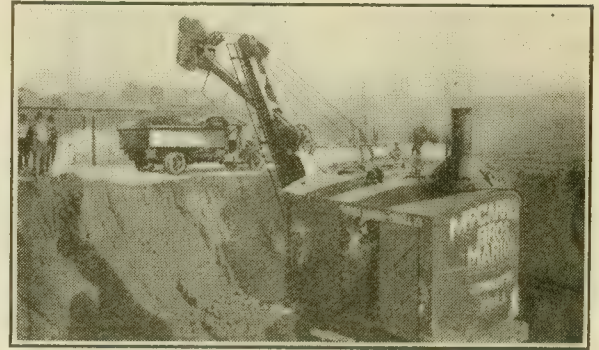
**Garages (2)**, Clearfield and Mascher streets, Philadelphia, \$15,000. Architect, private plans. Owner, Edward Drake, Southeast Corner Howard and Allegheny avenue, Philadelphia. Brick, 1 story, 75x33 feet and 101x33 feet, slag roof, cement floors. Contract awarded to Thomas Matthews Sons, 2336 North Hancock street.

**Telephone Exchange Building**, South side Grant avenue, East of Bustleton avenue, Philadelphia, \$30,000. Architect, Chris. H. Fries, Fox Chase, Pa. Owner, Charles H. Heyer, Bustleton, Philadelphia. Brick, 2 stories, 81x33 feet, slag roof, steam heat, electric work, oak, pine and cement floors. Contract awarded to Walter Freas, Bustleton, Philadelphia.

**Manufacturing Building (add.)**, North side Filbert street, West of Thirty-sixth street, Philadelphia, \$28,000. Architect, private plans. Owner, Burk Company, on premises. Reinforced concrete, 2 stories, 31½x100 feet, slag roof, cement floors, steel sash, iron work. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

**Rooming House (add.)**, 208 South Eighth street, Philadelphia, \$13,500. Architect, private plans. Owners, Norstein, Fishman & Rosen, on premises. Brick, 3 stories, 22x21 feet, 22x21 feet, 16x37 feet, slag roof, electric work, pine floors. Contract awarded to S. Lazarus, 4914 Parkside avenue, Philadelphia.

**Warehouse**, Northeast Corner Delaware avenue and Tasker street, Philadelphia, \$10,000. Architect, private plans. Owners, Philadel-



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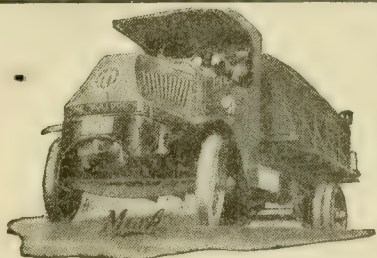
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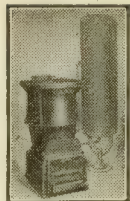
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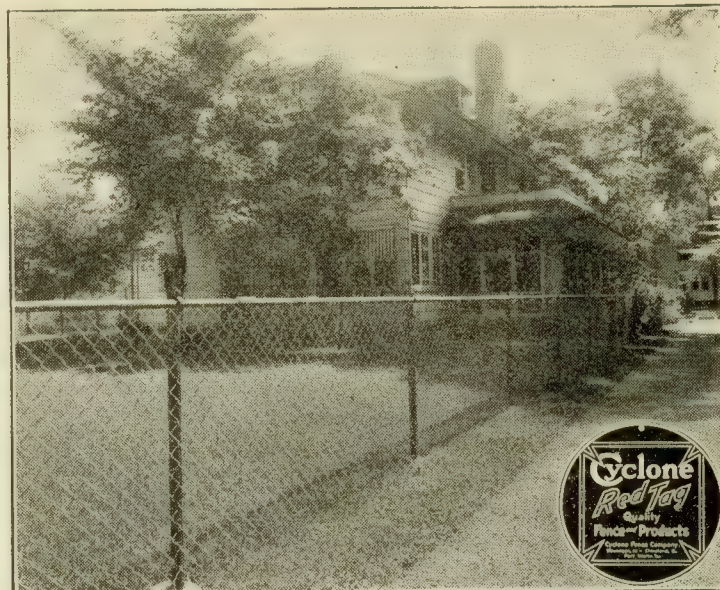
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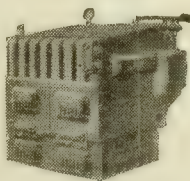
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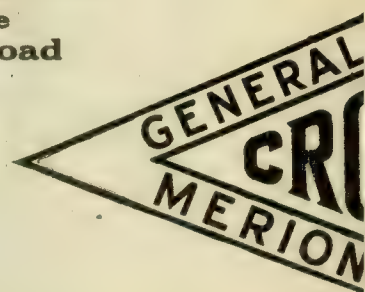
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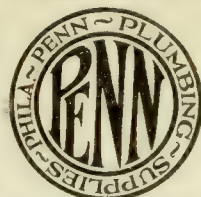
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phia Fibre Box Board Mills, on premises. Brick, 2 stories, 62x53 feet, slag roof, electric lighting, cement and pine floors. Contract awarded to Louis Rosengarten, 5623 Race street, Philadelphia.

**Garage**, 2814-20 Belgrade street, Philadelphia, \$8,400. Architect, private plans. Owner, W. T. Gould, on premises. Brick, 1 story, 63x64 feet, slag roof, cement floors, electric work. Contract awarded to Ferd. Pezillo, 3517 Almond street, Philadelphia.

**Residence**, 5362 Westford Road, Philadelphia, \$7,000. Architect, Robert M. Reeve, 5537 North Third street, Philadelphia. Owner, George Beitzel, 234 East Geneva street, Philadelphia. Brick, 2 stories, 19x30 feet, slag roof, hardwood floors, electric lighting, tile work. Contract awarded to Knox-Landers Co., 1132 Vine street, Philadelphia.

**Residence and Store (alts.)**, Southeast Corner Second and Girard avenue, \$7,500. Architect, private plans. Owner, Dr. W. L. Todwelle, on premises. General alterations. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

**Residences (2)**, East side Barnes avenue, North of Borbick street, \$4,500. Architect, private plans. Owner, W. J. Pratt, 7924 Oxford avenue, Philadelphia. Brick and frame, 3 stories, 22x24 feet, hardwood floors, hot water heat, electric light. Contract awarded to Joseph Ashby, 7920 Oxford avenue, Philadelphia.

**Store and Residence (alts.)**, Northwest Corner Thirty-second and Norris streets, \$4,500.

Owner, Samuel Shapiro, 1910 North Thirty-first street, Philadelphia. General alterations. Contract awarded to A. Sherpkin, 2612 North Thirty-first street, Philadelphia.

**Store**, 3528½ Germantown avenue, Philadelphia, \$4,500. Architect, private plans. Owner, Thomas Donohoe, 3528 Germantown avenue, Philadelphia. Brick, 1 story, 20x59 feet, slag roof, pine floors, electric work. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Show Room and Office (alts.)**, 1225 Arch street, Philadelphia, \$4,000. Architect, private plans. Owners, Computing, Tabulating & Recording Co., 846 North Broad street. General alterations. Contract awarded to Pomeroy Const. Co., 1609 Ransstead street.

**Cooling Tower**, Southwest Corner Glenwood and Montgomery avenues, \$11,000. Architect, private plans. Owners, American Ice Co., 15 Exchange Place, Jersey City, N. J. Steel. Contract awarded to Cooling Tower Co., 15 John street, New York.

**Office (add.)**, 322 Race street, Philadelphia, \$8,000. Architect, private plans. Owners, John Lucas Co., on premises. Brick, second story add., 27x47 feet, slag roof, electric work. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

**Residence**, 3557 Almond street, Philadelphia, \$4,500. Architect, private plans. Owner, Stanley Spiwak, 3559 Almond street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hardwood floors, electric lighting. Con-

tract awarded to C. Borner, 2838 North Front street, Philadelphia.

**Residence (add.)**, 3113 West Queen street, Philadelphia, \$3,000. Architect, private plans. Owner, Charles T. Brown, on premises. Brick, 1 story add., 10x13 feet, second story add., 18x13 feet, slag roof, hardwood floors, electric lighting. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

**Residence and Store (alts.)**, Southeast Corner Sixteenth and Columbia avenue, \$4,800. Architect, private plans. Owner, Jacob Goldsmith, on premises. General alterations. Contract awarded to Sol. Gaskey, 241 West Duncannon avenue.

**Residence and Store (add. and alts.)**, 714 North Twenty-third street, \$4,000. Architect, private plans. Owner, A. Hylock, on premises. Brick, 2 stories, 13x24 feet, slag roof, general alterations. Contract awarded to Leon M. Wajdyk, 516 McClellan street, Philadelphia.

**Office Building (alts.)**, 735 Walnut street, Philadelphia, \$3,925. Architect, private plans. Owner, S. H. Goldstein, on premises. General alterations, mill work, hardware, painting, glazing. Contract awarded to L. M. Shestack, 826 Arch street, Philadelphia.

**Residence (alts. and add.)**, 53 West Tulpehocken street, \$3,000. Architect, private plans. Owner, F. M. Ferguson, on premises. Brick, 2 stories, 16x13 feet, slag roof, general alterations. Contract awarded to Leonard Will, 651 North Frazier street, Philadelphia.

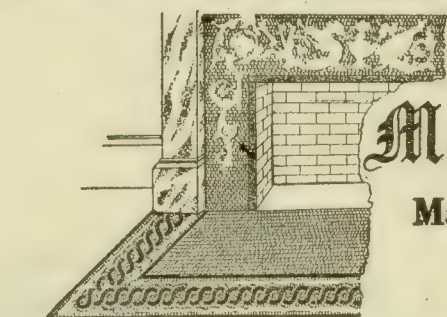
**Residence and Store (add.)**, 5610 Chew street, Philadelphia, \$2,700. Architect, private plans. Owner, G. Supinacci, on premises. General alterations and additions. Contract awarded to John Roman, 414 East Brighthurst street.

**Residence and Store (alts.)**, 2801 Kensington avenue, \$2,200. Architect, private plans. Owner, B. McGuigan, on premises. General alterations. Contract awarded to L. Alty, 2007 Carlton street, Philadelphia.

**Residence (alts. and add.)**, 3728 Market street, Philadelphia, \$3,000. Architect, private plans. Owner, M. M. Sullivan, 3730 Market street, Philadelphia. Brick, 1 story, 11x48 feet and 3x12 feet, general alterations. Contract awarded to James Johnston Co., 1721 Ludlow street.

**Residence and Store (alts.)**, Southwest Corner Fortieth and Girard avenue, \$2,060. Architect, private plans. Owner, Benjamin Cohen, on premises. General alterations. Contract awarded to Robbins Cont. Co., 1137 North Front street.

**Residence (add.)**, 5653 Chew street, Germantown, Philadelphia, \$2,300. Architect, private plans. Owner, E. J. Heary, on premises. Brick, 1 story, 14½x7 feet, slag roof,



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hardwood floors. Contract awarded to Maurice C. Manchey, 802 East Washington Lane.

**Residence (add.)**, 3552 North Fifteenth street, Philadelphia, \$2,100. Architect, private plans. Owner, William J. Eastwood, on premises. Brick, 1 story, 12x31 feet, slag roof, hardwood floors. Also Garage, 1 story, brick, 25x20 feet, cement floors, \$1,400. Contract awarded to J. Schuster, 3906 North Sixteenth street, Philadelphia.

**Garage**, 4936 Wakefield street, Philadelphia, \$2,000. Owner, John Harding, on premises. Brick, 1 story, 16x55 feet, slag roof, cement floors, electric work. Contract awarded to William H. Reed, 341 Snedaker street, Philadelphia.

**Residence**, 65 Rochelle avenue, Philadelphia, \$7,500. Architect, private plans. Owner, Arthur Taylor, 4327 Pechin street, Philadelphia. Brick, 2 stories, 20x32 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to C. M. Swartley & Son, 6835 Ridge avenue.

**Bake Ovens (2)**, 809-11 North Hancock street, Philadelphia, \$4,000. Architect, private plans. Owner, J. Gaskowiki, 134 Vine street, Philadelphia. Brick. Contract awarded

to Otto Matz & Son, 2002 North Fourth street.

**Residence (alts.)**, Southeast Corner Mt. Airy and Germantown avenue, \$3,000. Architect, private plans. Owners, James Johnson & Sons, on premises. General alterations. Contract awarded to Robert Christy, 1705 Chestnut street, Philadelphia.

**Residence and Store (alts.)**, 2000 South street, Philadelphia, \$3,000. Architect, private plans. Owner, S. Gillman, on premises. General alterations. Contract awarded to George W. Wagoner, 2042 Rittenhouse street.

**Residence (add.)**, 6179-81 Glenmore avenue, Philadelphia, \$2,000. Architect, private plans. Owner, William Jones, 6181 Glenmore avenue, Philadelphia. Brick, 1 story, 13x7 feet, slag roof, electric work. Contract awarded to F. J. Nardy Co., 5905 Woodland avenue.

**Residence (add.)**, 3634 Chestnut street, Philadelphia, \$2,400. Architect, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Charles H. Thomas, on premises. Brick, second story add., 14x6 feet, slag roof, electric lighting. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Residence**, Brookline, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, Charles Wood, Brookline, Pa. Frame and stucco, 2½ stories, 26x33 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Theatre (alts.)**, Norristown, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, A. Sablosky, Norristown, Pa. Brick and steel, composition roof, cement and rubbertile floors, roof ventilators, metal lath, tile, marble and terrazzo, hollow metal sash, kalamein doors, bond, iron work. Architects taking bids due May 17th.

**United States Post Office**, Phoenixville, Pa. Architect, James A. Wetmore, Supervising Architect, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Brick and steel, 1 story, 58x72 feet, composition roof, cement and maple floors, roof ventilators, waterproofing, steam heat, electric light, metal lath, tile work, bond, floor hardener. Owners taking bids due May 22nd at 3 P. M.

**New Boilers**, State Arsenal, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, Berkey K. Boyd, Superintendent of Public Grounds and Buildings, Harrisburg, Pa. Furnishing and installing complete, (2) low pressure water tube boilers and electrically driven vacuum pump and connecting to feed and return lines of present heating system and present smokestack. Owners taking bids due May 24th at noon, standard time. Deposit of \$10,000.

**Rectory**, Wilkes-Barre, Pa. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Mary's Roman Catholic Church, Rev. John H. Curran, Wilkes-Barre, Pa. Brick, cut stone, reinforced concrete and stone, 3 stories and basement, 46x75 feet, slate roof, linoleum, composition, pine and cement floors, electric light, metal lath, tile and marble, bond, iron work, waterproofing, terra cotta. Architect taking bids due May 21st.

**Chester County Home (fire escapes)**, Embreeville, Pa. Owners, Chester County Home, W. B. Passmore, superintendent, Embreeville, Pa. Owners taking bids due superintendent's office, May 17th, noon, standard time.

**New Front and alts. and add. to Church**, Lykens, Pa. Architect, Carl P. Berger, 1520 Spruce street, Philadelphia. Owners, St. Mary's Church, Rev. H. W. Herzog, Lykens, Pa. Tapestry brick, cut stone, terra cotta and castone, slate roof, plumbing, steam heating, metal lath, plastering, carpentry, mill work, painting, personal bond (electric work

## PENNSYLVANIA

# Construction News

**Residence**, Beechwood Park, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, R. J. McCormick, Beechwood Park, Pa. Hollow tile and stucco, 2½ stories, 25x30 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will take sub-bids and build.

**Residence**, Wrightsville, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, O. G. Burg, Wrightsville, Pa. Hollow tile and stucco, 1½ stories, 34x40 feet, shingle roof, tile work, electric light, hardwood floors. Plans in progress.

**Club House**, Sunbury, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Susquehanna Valley Country Club, W. H. Rohrback, chairman of Building Committee, Fifth and Market streets, Sunbury, Pa. Preliminary plans in progress. Too early for details.

**Theatre**, Guetter and Broad streets, Bethlehem, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Bethlehem Theatre Corporation, L. F. Herberger, 621 Avenue H, West Bethlehem, Pa. Brick, 1 story. Preliminary plans in progress.

**High School**, Flourtown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Springfield

Township, Russell Y. Puling, Flourtown, Pa. Brick and stone. Plans in progress.

**Residence**, Haverford Road, Ardmore, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, Samuel McKeeman, Belmont avenue, Ardmore, Pa. Stone, 2½ stories, 32x40 feet, wing 20x18 feet, slate roof, hardwood floors, hot water heat, electric light, tile work and remodeling stable on grounds into garage. Plans about completed. Will be ready for bids in a few days.

**Residence**, Drexel Hill, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, James McKeeman, Drexel Hill, Pa. Stone, 2½ stories, 28x51 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, garage, 1 story, 25x22 feet. Owner is ready for bids.

**School Building**, West Chester, Pa. Architect, Walter F. Price, 119 South Fourth street, Philadelphia. Owners, West Chester Normal School, Robert F. Anders, West Chester, Pa. Stone, 2 stories. Preliminary plans in progress. Will take bids in fall of 1923.

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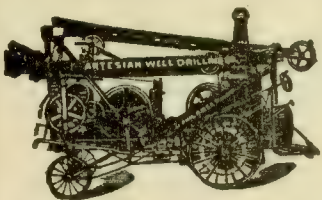
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and leaded glass reserved). Architect taking bids due May 21st at 1 P. M.

**Apartment House**, Bala, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owners, Mrs. C. W. Hendricks, Bala, Pa. Stone and stucco, 3 stories and basement, 25x35 feet, slag roof, composition floors (heating and lighting extensions). Revised plans in progress.

**Residence**, Willow Grove, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, John Rucker, Hancock and Diamond streets, Philadelphia. Brick, stone and bluestone, 2½ stories, 40x65 feet, shingle asbestos roof, hardwood floors, hot water heating, electric lighting, plumbing, artesian well. Architect taking sub-bids due as soon as possible.

**Twin Residence**, 24-26 North Sixth avenue, West Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, William F. Fexter, 28 North Sixth avenue, West Reading, Pa. Brick, 2 stories, 30x50 feet, slate and tin roof, pine floors, hot water heat, electric light. Owner ready for bids.

**Bungalow**, West Wyomissing, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, Miss Mae Heffner, 736 North Thirteenth street, Reading, Pa. Brick, 1½ stories, 32x50 feet, composition roof, hardwood floors. Owner ready for sub-bids.

**Hauch School**, Lebanon, Pa., \$225,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon School Board, W. R. Mark, secretary, Lebanon, Pa. Brick, hollow tile, structural steel and iron, 2 stories and basement, 247x78 feet (heating, electric work and plumbing reserved), tile roof, composition roof, metal partitions, tile and terrazzo work, cast stone, roof ventilators, iron stairs. Low bidder, C. W. Strayer, Lemoyne, Pa. Owners will take revised bids in fall.

**Store (alts.)**, 109 South Center street, Pottsville, Pa. Architect, Fred Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, George Bright Hardware Co., on premises. New front, plate glass, hardwood floors, vapor heating, plumbing, terrazzo work. Architect taking bids due May 17th.

**Residence**, Lot 11, Wynnewood, Pa. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owners, Mr. and Mrs. Arthur Clark, Otis Building, Philadelphia. Stone, brick, hollow tile and stucco, 2½ stories, 43x23 feet, shingle roof, oak and pine floors, electric light, tile work, rolled steel sash, incinerator. Architect taking bids due May 18th.

**School (alts.)**, Reading, Pa. Architect, G.

C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Mary's Parish School, Rev. Malusecki, Twelfth and Spruce streets, Reading, Pa. General alterations, partitions, steam heating, blackboards, plumbing. Architect taking bids due as soon as possible.

**Dormitory Bungalows (3)**, Mess Bungalow, Bradford Hills, Pa. Architect, Wesley Leshner Blithe, 618 Chestnut street, Philadelphia. Owners, Children's Country Week Association, Wesley Building. Frame, (3) 58x33 feet and 72x45 feet, shingle roof, pine floors, electric light, bond, iron work. Architect taking revised bids due as soon as possible.

**School**, Collingdale, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, Board of Education, Collingdale, Pa. Reinforced concrete, brick stone, 2 stories and basement, 150x70 feet, slate roof, cement and maple floors, roof ventilators, waterproofing, Bond, (heating, plumbing and lighting, separate bids), iron work and stairs. Bids due at architect's office, May 18th, at noon, and opened by School Board May 18th, 8 P. M.

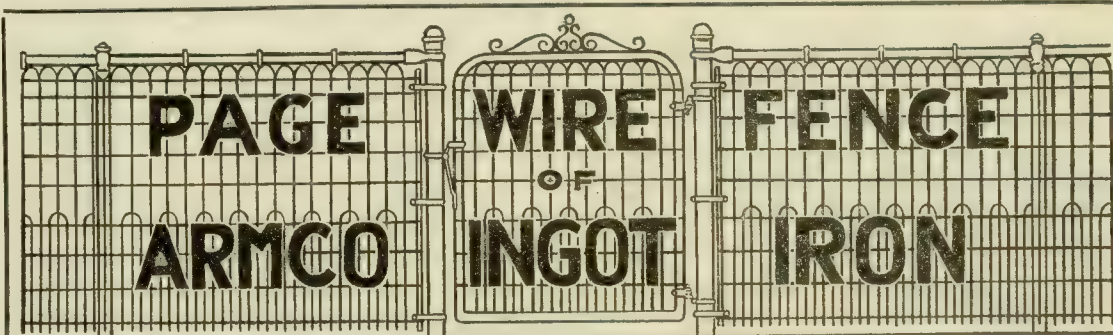
## Pennsylvania Contracts Awarded

**Boys' Building**, Merion, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Merion, Pa. Stone, 2 stories, 190x45 feet, 75x32 feet and 30x50 feet, slate roof, pine and oak floors, tile, marble and terrazzo, waterproofing, dampproofing, terra cotta, iron stairs and work. Contract awarded to M. L. Conneen & Son, 1813 South Fifty-fourth street, who are taking sub-bids due as soon as possible.

**Filter Building**, Chester, Pa. Architect, private plans. Owners, Aberfoyle Mfg. Co., William T. Galey, general manager, Chester, Pa. Brick, steel, concrete, 1 story, 90x24 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to William Provost, Jr., Chester, Pa.

**Garage**, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Norman I. Graber, Yost avenue, Spring City, Pa. Tapestry brick, 1 story, 20x30 feet, asbestos shingle roof, concrete floors (heating, plumbing and lighting reserved). Contract awarded to Frank Walley, Broad street, Spring City, Pa.

**Dairy Barn**, Wilson's Corner, near Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, James Pietrowicz, R. D. No. 4, Phoenixville, Pa. Stone and frame, 2 stories, 50x80 feet, asbestos roof, concrete and wood floors, demo-



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lition of old buildings, electric lighting, bond. Contract awarded to William Kaempfer, Glen Moore, Chester County, Pa.

**Lodge Rooms, Offices and Store Room,** Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John B. Young, Main street, Spring City, Pa. Stone, brick, 3 stories and basement, 28x60 feet, tin roof, wood, tile and composition floors (heating, plumbing, lighting and store fixtures reserved), metal lath, metal sash. Contract awarded to Brown H. Keiter, New street, Spring City, Pa.

**Bank Building (int. alts.),** Lock Haven, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Clinton Trust Company, W. S. Harris, president, Lock Haven, Pa. Grt stone, brick and stone work, bronze, vault and vault door, plastering, painting, tile work, marble and terrazzo bank screens. General construction awarded to Tidlow Brothers, Lock Haven, Pa. Various lines sub-let by architects.

**Bank (add.),** Third and Broad streets, Harrisburg, Pa. Engineers, Stiffel & Freeman, 723 Chestnut street, Philadelphia. Owners, Central Trust Co., H. O. Miller, treasurer, Harrisburg, Pa. Brownstone and Indiana limestone, 2 stories, 40x60 feet, composition floors, heating extension, electric lighting, tile and marble work. Contract awarded to C. W. Strayer, Lemoyne, Pa.

**Residence,** Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, C. J. Shilcock, Broad and Westmoreland sts, Phila. Stone, brick & cut stone, 2½ stories, 65x40 feet, slate roof, oak and pine floors, iron work, hot water heat, electric lighting, metal lath, tile work, iron work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

**Residence,** North Wyomissing Heights, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, Chester D. Stong, 716 Washington street, Reading, Pa. Cement block, stucco, 2 stories, 24x30 feet, composition roof, yellow pine floors, hot water heat, electric light. Contract awarded to Miller Geis, Reading, Pa.

**Road Work,** Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg.

Lackawanna County, Route 168, Elmhurst Borough, \$14,534.50. Contract awarded to H. B. Sproul Const. Co., Scranton, Pa.

Northampton County, Appli. 2128, Freemansburg Borough, \$49,291.10. (April 3rd letting). Contract awarded to R. D. Richardson Const. Co., Scranton, Pa.

Crawford County, Route 281, Rome and Struben Townships, \$165,009.35. Contract awarded to J. C. Devine Co., Alliance, Ohio.

Indiana County, Route 54, White Township, \$219,497.40. Contract awarded to M. Bennett & Sons, Indiana, Pa.

Lawrence County, Route 265, North Beaver Township, \$171,231.22. Contract awarded to Garvey Weyenberg Const. Co., Appleton, Wis.

Mercer County, Route 238, Hickory Township and Sharon City. Contract awarded to Jamieson & Narlee, Fredonia, Pa., \$41,737.40.

**Residence,** Pembroke, Pa. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, A. W. Drobile, 437 West Penn street, Germantown. Stone, 2½ stories, 40x129 feet, wing 22x13 feet, shingle roof, oak and pine floors, hot water heat, electric lighting. Con-

tract awarded to D. Ridgway Evans, Penfield, Pa.

**Double Residence,** York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owner, F. H. Bierman, 646 Cleveland avenue, York, Pa. Brick, 2½ stories, 35x50 feet, slate roof, hardwood floors, vapor heat, electric light. Contract awarded to S. F. Glatfelter, York, Pa.

**Bank and Office,** Red Lion, Po. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, First National Bank, C. S. La Motte, president, York, Pa. Granite and brick, 3 stories, 150x57 feet, slate roof, maple floors, hollow tile, metal lath, electric lighting, tile and marble work. Contract awarded to I. Riandollar & Son, York, Pa.

**Bank,** Dover, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, Dover National Bank, Mr. Lauer, care of architect. Brick and Indiana limestone, 1 story and mezzanine, 30x64 feet, slag roof, tile floors, electric lighting, vapor heating, metal lath, bronze work, metal window guards, bank fixtures. Contract awarded to L. Menough, York, Pa.

**Home and Bank Building,** Sixth and Maclay streets, Harrisburg, Pa. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, International Brotherhoods' Relief and Compensation Fund, Inc., Harrisburg, Pa. Building consists of bank, stores, shops, cafe, ice plant, power plant, offices, halls, apartments, roof garden, etc. Fireproof, 10 stories, 177½x127 feet, vault, elevators, electric lighting, tile and marble work, rolled steel sash, roof ventilators, hollow metal doors, dampproofing, waterproofing. Contract awarded to Morrow Brothers, Fidelity Building, Baltimore, Md. Work about to start.

## New Jersey Construction News

**Community Garage,** Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, Eugene Allfather, River Road, Trenton, N. J. Cement block, 1 story, 42x65 feet, slag roof, concrete floors, electric light, floor hardener. Plans in progress.

**Residence,** Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Archibald Brown, 830 Riverside street, Trenton, N. J. Brick, 2½ stories, 35x48 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residences (2),** Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, George Brumm, Trenton, N. J. Brick, 2½ stories, 15x29 feet, slag roof, pine floors, pipeless heat, electric light. Owner ready for bids.

**Court House (alts. and add.),** Mt. Holly, N. J., \$100,000. Architect, William Le Coney, Moorestown, N. J. Owners, Burlington County Freeholders, W. H. Reeves, Court House, Mt. Holly, N. J. Brick, 2 stories. Sketches submitted.

**Residence,** Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. M. L. Stetser, Merchantville, N. J. Architects selected.

**Office Building,** Camden, N. J. Architects,

Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Meyers Baker, care of architects. Cinder block and stucco, 2 stories, 20x100 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, ornamental tile work, rolled steel sash and skylights, roof ventilators, ornamental iron work. Plans in progress.

**Store (alts. and add.),** 1131 Broadway, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Hanover Shoe Co., care of architects. Cinder block, 1 story, 16x75 feet, slag roof, pine floors, pipeless heat, electric light, general interior and exterior alterations. Plans in progress.

**Church,** Eighth and Woodland avenue, Camden, N. J., \$25,000. Architect, A. B. Gill, Law Building, Camden, N. J. Owners, Woodland Avenue Presbyterian Church, care of architect. Brick, 1 story and basement, 72x40 feet, slate roof, maple floors, steam heat, electric light, stained glass. Plans in progress.

**Shop Addition,** 1429 Haddon avenue, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owners, Automotive Electric Equipment Co., on premises. Brick, 1 story, 24x30 feet, slag roof, cement floors, electric light. Plans in progress. Will be ready for bids in a few days.

**Store (alts.),** 65 Broad street, Woodbine, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, S. Putiri, on premises. Brick, 2 stories, 50x56 feet, slag roof, plate glass, electric work. Plans in progress.

**Display Room (alts.),** Delaware avenue and Boardwalk, Atlantic City. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owners, Rudd Heater Mfg. Co., care of architect. General interior alterations, plate glass, tile work. Plans in progress.

**Residence (alts. and add.),** Pleasantville, N. J. Architect, R. A. Rosenstein, Humphreys Building, Atlantic City. Owner, M. K. Boysajian, care of architect. Brick, stucco, 2 stories, L shape, slate roof, hardwood floors, tile work. Plans in progress.

**Hotel,** Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, Mr. Unille, care of architect. Fireproof, 250 rooms, composition roof, metal lath, tile work. Plans in progress.

**Schools (alts.),** Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, School Board of Camden, A. Austermuhl, secretary, Camden, N. J. Grant School, Friend and Linden streets; Bergen School, Fifth and Mt. Vernon streets; Lincoln School, Twelfth and Kaighn avenue; Garfield School, Twenty-ninth and Cramer streets; Everett School, Seventh and French streets, and McKinley School, Thirty-fifth and Mickle streets. Electric work and fixtures. Plans in progress. Owners will take sub-bids.

**Store Building,** 934 Broadway, Camden, N. J., \$30,000. Architect, A. B. Gill, Law Building, Camden, N. J. Owners, A. Robus & Son, care of architect. Brick and limestone, 2 stories, 40x70 feet, slag roof, composition floors, plate glass, hot water heat, electric light. Lesley Reeve, Woodlyn, N. J., is taking sub-bids due in about two weeks.

**Laundry** Third and Taylor streets, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Domestic Laundry, Mr. Fries, Haddon Heights, N. J. Brick, steel, 2 stories, 75x200 feet, slag roof concrete floors, steam heat, electric light, rolled steel skylights, fire doors, iron stairs, waterproofing and dampproofing. Owners will sub-let.

**Stanley Hotel (alts. and add.),** 128 South Carolina avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owners, Stanley Ho-

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tel Co., 124 South South Carolina avenue, Atlantic City. Brick and stucco, 5 stories, 94x60 feet, slag roof, hardwood floors, electric light, metal lath, elevators, rolled steel skylights. Architect taking bids.

**Residences (5).** Main street and Inlet, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, M. Fisher, care of architect. Brick, 2 stories, 16x43 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Apartment,** Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, William Brilliant, States avenue, Atlantic City, N. J. Fireproof, 6 stories, 40x112 feet, slag roof, hardwood floors, hollow tile, electric light, metal lath, tile work. Architect will be ready for bids about May 20th.

**Grade School,** Toms River, N. J., \$155,000. Architect, Clinton B. Cook, Asbury Park Trust Building, Asbury Park, N. J. Owners, Board of Education, Toms River, N. J. Brick, 2 stories and basement, 215x90 feet, slag roof, concrete slab floors, hollow tile, metal lath, tile work, roof ventilators, rolled steel sash, kalamein doors, iron stairs, terra cotta (heating, plumbing and electric work reserved). Will be ready for bids about May 18th due about June 1st.

**High School (add.),** Moorestown, N. J. Architect, Frank Sanders, Pennsylvania Bank Building, Chester, Pa. Owners, Moorestown Township School Board, L. E. Klotz, District Clerk, Moorestown, N. J. Brick and steel, 3 stories, 76x58 feet, slate roof, maple floors, roof ventilators, dampproofing, iron work, bond, hollow metal skylights (steam heat, electric work and plumbing reserved). Bids due May 24th.

**Dormitory,** New Lisbon, N. J. Architect, A. B. Mills, State Capitol Building, Trenton, N. J. Owners, Colony for Feeble Minded, care of Mr. Morgan, New Lisbon, N. J. Concrete block and stucco, 2 stories, 30x40 feet, slate roof, hardwood floors, electric light. Architect taking bids due as soon as possible.

**Grade School,** Glenola, N. J. Architect, Frank Sanders, Pennsylvania Bank Building, Chester, Pa. Owners, Board of Education of Moorestown Township, L. E. Klotz, District Clerk, Moorestown, N. J. Brick and steel, 3 stories, 100x60 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, iron stairs, bond (steam heat, electric light and plumbing reserved). Bids due May 24th.

**School No. 2 (alts. and add.),** Bordentown N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Bordentown School Board, Secretary Buchanan, Bordentown. Frame, 1 story, 35x40 feet, tin roof, pine floors. Low bidders: Joseph Chandler, Bordentown, N. J., \$8,321.46. Plumbing and heating, Trenton Plumbing & Heating Co., Trenton, N. J., \$1,448. Electric, Bensil Electric Co., Bordentown, N. J., \$195.

**High School (alts. and add.),** Bordentown, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Board of Education, Bordentown, N. J. Brick, 2 stories, 10x25 feet, tin roof, pine floors. Low bidders: General contract not opened until May 10th. Heating and ventilating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, \$13,249. Plumbing, William S. Royer, Trenton, N. J., \$4,040. Electric, Jackson Electric Co., Trenton, N. J., \$690.

**North Rosedale School,** Thirty-sixth and Cramer streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson Ave., Camden, N. J. Owners, Board of Education, Elwood C. Bunting, chairman Building Committee, and A. Austermyhl, secretary of Board, Camden, N. J. Reinforced concrete, brick, cut stone and steel, 3 stories, 159x95 feet, slag

roof, concrete, pine and hardwood floors, safety treads, roof ventilators, metal ceilings, waterproofing and dampproofing, iron work and stairs, floor hardener, bond, hollow metal skylights, rolled steel sash, tile work (vapor and hot air heat, electric work and plumbing reserved). Owners taking bids due May 21st at 2 P. M.

## New Jersey Contracts Awarded

**Bank Building,** Woodstown, N. J. Architect, David B. Bassett, 1420 Locust street, Philadelphia. Owners, Woodstown National Bank, Woodstown, N. J. Reinforced concrete, stone, brick and steel and cut stone, 1 story, balcony and basement, 54x40 feet, slag roof, cement and oak floors, steam heating, electric lighting, metal lath, marble and terrazzo work, bond, iron work, terra cotta. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

**Manufacturing Buildings, Office Building and Boiler House,** Elizabeth, N. J. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, American Type Founders Co., Jersey City, N. J. Reinforced concrete, brick, steel, limestone and castone, 1 and 2 stories, 600x157 feet, boiler house, 1 story, 45x46 feet, saw-tooth roof, cement and maple floors, waterproofing, terra cotta, bond, hollow metal doors, rolled steel sash, terrazzo, heating system. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**High School,** Haddon Heights, N. J. Architect, Charles R. Peddle, 129 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Heights, N. J. Brick, concrete, granite and limestone, cut stone and steel, 3 stories and basement, 236x73 feet and 77x55 feet, slag roof, pine and cement floors, hollow tile, waterproofing, iron work, flortyle, tin-clad and kalamein doors, tile and marble, metal lath. Contracts awarded to: Wills Bill Co., 1706 Sansom street, Philadelphia, \$329,923. Heating and ventilating, United Plumbing & Heating Co., \$39,500. Plumbing, United Plumbing & Heating Co., \$16,610. Electric, Strang Electric Co., 214 South Seventh street, \$7,513.

**Grade School,** Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson Avenue, Camden, N. J. Owners, Board of Education, Haddonfield, N. J. Contracts awarded to: Barnes McLaughlin, 17 South Seventeenth street, Philadelphia, \$51,700. Heating, F. D. Windell, 1713 Sansom street, \$5,318. Plumbing, W. J. Kelly, Ferry avenue and Van Buren street, \$3,080. Electric, A. A. Duckett, Camden, N. J., \$1,806.

**School for Colored Youth,** Haddonfield, N. J. Architects, Lackey & Hettle, 5 Hudson Ave., Camden, N. J. Owners, Board of Education, Haddonfield, N. J. Contracts awarded to: Wills Bill Co., 1706 Sansom street, Philadelphia, \$28,982. Heating, D. F. D. Windell, 1713 Sansom street, \$3,370. Plumbing, W. J. Kelly, Ferry avenue and Van Buren street, \$2,579. Electric, A. A. Duckett, Camden, N. J., \$1,015.

**Telephone Exchange (add.),** Trenton, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Trenton, N. J. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Fairview School (alts. and add.),** Camden, N. J. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, Board of Education, E. C. Bunting, chairman Building Committee. Contracts awarded to: Barnes & McLaughlin, 17 South Seventeenth street, Philadelphia, \$141,050, plus \$1,200, deduct \$500. Heating and ventilating, Camden

Heating Co., Camden, N. J., \$17,750. Plumbing and drainage, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, \$5,359. Electric, J. F. Buchanan Co., 1719 Chestnut street, \$1,868.

**Residence,** Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, William Hart, care of architects. Frame, 2 stories, 36x60 feet, cement tile roof, hardwood floors, hot water heat (plumbing and heating reserved), electric light, tile work. Contract awarded to James Birks, 222 Ardmore street, Trenton.

**Residence,** Lawrenceville Road, Princeton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mr. Charles A. Woodruff, American Mechanics' Bank Building, Trenton, N. J. Frame, 2½ stories, 25x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Gilbert Stout, Kingston, N. J.

**Nursery,** East Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Carolyn Stokes Nursery, care of architect. Brick, 2 stories, 30x45 feet, slag roof, hardwood floors, vacuum heat, electric light, metal lath, tile and marble work, skylights. Contract awarded to Thomas M. Day & Son, Fitzcharles Building, Trenton.

**Church (alts. and add.),** Merchantville, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Grace Protestant Episcopal Church, care of Rev. Harold Morse, Merchantville. Hollow tile and stucco, 1 story, 28x32 feet, wing 9x12 feet, asbestos roof, hardwood floors, electric light, general interior alterations. Contract awarded to M. T. James, Merchantville, N. J.

**School,** Rosedale, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Winslow Township School Board, H. Angelow, Berlin, N. J. Brick, 1 story, 2 rooms (heating, plumbing and electric reserved), pine floors, composition roof. Contract awarded to Bessinger & Smith, Blue Anchor, N. J.

**Residence (alts. and add.),** Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. George M. Carey, Merchantville, N. J. Stone, timber, 2 stories, irregular size, hardwood floors, vapor heat, electric light, tile work, partition work. Contract awarded to T. H. Miller, 1672 Collings avenue, Camden, N. J.

**Store and Apartment,** Georgia and Atlantic avenues, Atlantic City. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, A. Vansant, care of architect. Brick, 3 stories, 40x60 feet, slag roof, hardwood floors, electric work. Contract awarded to P. G. Hannum, Georgia avenue and Thoro-fare, Atlantic City.

## Delaware Construction News

**Parish House (add.),** Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Stone, 2½ stories, 44x100 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Bank,** Newark, Delaware, \$75,000. Architect, Robert L. Harris, 13 West Saratoga street, Baltimore, Md. Owners, Farmers' Trust Company, Newark, Delaware. Stone, brick, concrete, 1 story, 51x70 feet, slate inlaid roof, marble and cork floors, steam indirect heating, electric lighting, metal lath, marble work, steel sash, fire and kalamein doors, bank fixtures, bond, iron stairs, ornamental iron work, roof ventilators, metal window guards, waterproofing, terra cotta, wire work (mechanical and vault furniture reserved). Architect ready for bids.



## Delaware

### Contracts Awarded

**Store**, Wilmington, Del. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owner, Mr. Griffenberg, 103 Market street, Wilmington, Del. Brick and terra cotta, 4 stories, 22x117 feet, Johns Manville roof, tile and hardwood floors, metal lath, elevators, roof ventilators, rolled steel skylights (heating, plumbing and electric work reserved). Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

**Apartment (alts.)**, Wilmington, Del. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owner, Dr. Earl Bell, 2312 West Eighteenth street, Wilmington, Del. General interior alterations, partitions, mill work, plastering, slate roof, hardwood floors, iron stairs. Contract awarded to Charles Dougherty, 2515 West Eighteenth street, Wilmington, Del.

**Office (alts. and add.)**, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Electric Hose & Rubber Co., Twelfth and Dure streets, Wilmington, Del. Brick, structural steel, 1 and 2 stories, 125x50 feet, 60x195 feet, composition roof, cut stone, hollow tile, electric light, rolled steel sash, metal work. Contract awarded to J. E. Healy & Sons, 707 Tatnall street, Wilmington, Del.

## Miscellaneous

### Construction News

**Grade School**, Elkton, Md. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, Cecil County School Board, care of H. Caldwell, secretary, Elkton, Md. Brick, 2 stories, 40x80 feet, slag roof, pine and composition floors (heating, electric work and plumbing reserved). Plans in progress. Owner will take bids at end of month.

**Residences (3)**, location withheld. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. P. Sharp, 1042 South Fifty-fourth street, Philadelphia. Stone, brick and stucco, 2½ stories. Plans about completed. Owners will take bids in a few days.

**Gymnasium and Swimming Pool**, Fordham, N. Y. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, Fordham University, Fordham, N. Y. Contract awarded to Burke Brothers Co., 1480 Broadway, New York City.

**Peabody Museum**, New Haven, Conn. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Yale University, New Haven, Conn. Contract awarded to Sperry & Treat, Washington Building, New Haven, Conn.

**Hall of Chemistry**, Morgantown, W. Va. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, West Virginia University, care of State Board of Control, James S. Lakin, secretary, Charleston, W. Va. Brick, limestone, granite and steel, 4 stories, 305x79 feet, slate roof, tile, marble, terrazzo, composition and cement floor, iron work, metal lath (heating, plumbing, lighting and ventilating separate bids). Owners taking bids due June 1st at 3 P. M.

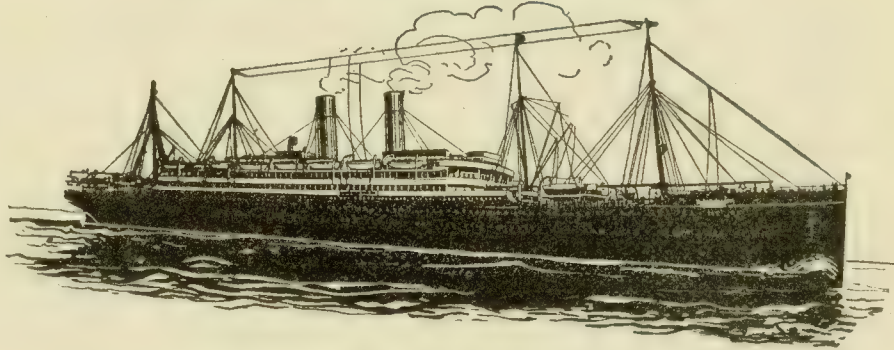
To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

## ANNOUNCEMENT

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telligent persons who wish to visit the battlefields of France, the Shakespeare country, Scandinavia, the Land of the Midnight Sun, etc. A chance of a lifetime! So it would seem; but it is more than that. The company is building for a permanent business, setting a new standard of high-class ocean travel on a one-class basis. That this can be done at a fair margin of profit has already been proved and is further outlined in our prospectus. You'll find it extremely interesting.

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## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 7, 1923. Sealed Proposals will be opened in this office at 3 P. M., June 4, 1923, for the construction, including mechanical equipment, of the United States Post Office at Leesburg, Va. Drawings and specifications may be obtained from the Custodian of the site at Leesburg, Va., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

### IMMIGRATION LEGISLATION

**T**HE following outline has been prepared as an aid to the membership of the Associated General Contractors in discussing the subject of immigration:

#### *The Present Situation*

That we may more readily understand the present unsatisfactory working of our immigration laws and appreciate the imperative need for an immediate change, let us review briefly the present regulations.

The present immigration law was passed and became effective June 1, 1921. It restricts the annual immigration from countries of the Old World to 3 per cent. of each nationality resident in this country as shown by the 1910 census. It was enacted for the purpose of reducing the number of immigrants and it certainly has been effective in its operation. The net male immigration since its enactment has been less than the number of men returning to Europe from America. The law is very rigid and does not permit the making up of the deficiency in one class from that of a class whose quota is not used up, thereby not only cutting down the number of immigrants, but also turning away many desirables from nations where the quota is filled, and admitting undesirables where the quota has not been filled. In short, in its operation and net results it amounts to an exclusion act.

#### *Our New Policy and What It Should Be*

Congress is expected to draft a new immigration law. In drafting it they should be guided by the wishes and judgment of those who hold uppermost and of prime importance, the needs of America as a nation and the industrial situation from a national standpoint.

The following principles are considered fundamental by a large group of our citizens, from all walks of life, who have given the subject serious and conscientious study. You can assist in bringing about the necessary change by giving publicity to these principles and urging your representatives in Congress to see that they are incorporated in any new legislation.

### *Fundamental Principles*

1. Immigration should be regulated and selected both in quantity and in quality.
  2. No more immigration should be admitted of any nationality than we can wholesomely assimilate and in a reasonable length of time wisely incorporate into our body politic.
  3. No more immigration should be admitted than can find steady and useful employment without endangering normal American standards of life, labor and wages.
  4. The numerical regulation of immigration should be flexible. When industrial depression sweeps the country, all labor immigration should be promptly stopped. But the doors should again be opened when prosperity returns. It should be possible to take either step without waiting for special Congressional action.
  5. The closing and opening of our doors should be scientific. It should be based on assured and accurately compiled facts and statistics from every part of the country.
  6. The law should be general. The principles should be applied equally to every nation and people without arbitrary discrimination.
  7. The law should be courteous to all. It should be possible, without humiliating any, to exclude completely particular types of immigration which definite experience shows to be difficult to assimilate and absorb.
  8. The law should provide for the sending of expert examiners to the lands from which immigration mostly comes—this for the sake of both prospective immigrants and of our own land.
  9. The law should make possible a wise distribution of new immigration. The flow should be restricted or entirely stopped from given peoples, to already congested areas, and encouraged to go to those parts of America where it is desired.
  10. The new immigration policy should be distinctly patriotic. It should favor immigration from peoples easily assimilated and check it from other lands. It should guarantee equal treatment and a square deal to all aliens now in the United States. It should provide for higher standards for naturalization and then grant the privileges of citizenship to all who qualify. It should look to the creation of a substantially homogeneous people having a common mind, and a wholesomely functioning democracy.
- For the purpose of administering a law based on and containing the above principles there should be created a Federal Immigration Board who, by co-operation with the Departments of Agriculture, Commerce, Labor, State and Interior, could have accurate information concern-

ing the economic needs in each State and limit immigration to such people who are actually needed and such races as their experience had shown can be most readily assimilated.

The work of the Board would be augmented by the sending of expert examiners, to the lands from which immigration mostly comes—who would select not only by the present standards of moral, intellectual and physical fitness but also their fitness for the industrial needs of the country.

This Board could, by reason of their intimate and accurate knowledge of the needs of the different sections of the country, so direct the distribution of immigration that all needs would be supplied and the already congested districts relieved.

An immigration law incorporating these principles and administered in the light of the facts and experience of our national life as gathered by our governmental departments would be fitted to effectively deal with the changing industrial conditions and also with the larger and more intricate problem of population composition.

The present restrictive immigration law expires on June 30, 1924, and Congress no doubt will soon consider and enact a new law. There are some members who believe that immigration should be further restricted and are preparing to offer such a law and we must be alert if we expect relief from the present unsatisfactory conditions.

This is the most important question now facing the country, and if citizens from all sections show a lively and determined interest at this time, it is more than likely we can secure a fair practical and workable law, but if they do not, the chances are very strong that immigration will be further restricted.

For more data see article on immigration in the November, 1922, *Constructor*, (By Gen. Marshall,) INDEX of September 2, 1922, and the April 14 1923, issue of the Magazine of Wall Street, containing "Labor Shortage, Booming Wages and Ascending Prices," by General Marshall.

**It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.**



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
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Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
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## CEMENT WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## CENTRIFUGAL PUMPS.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.  
34 S. 17th St., Phila.

## CONCRETE WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
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## DRAWING MATERIALS.

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Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
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## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond St., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Baker Warehouse. ....Venango and G Sts., Phila.  
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## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard. ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MORTGAGE FUNDS.

Taylor, G. Herbert. ....Pennsylvania Bldg., Phila.

## OIL HEATERS.

Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.

## ORNAMENTAL IRON.

Adelhelm & Phillips. ....1511 Sansom St., Phila.  
Berko Bros. ....Randolph and Wood Sts., Phila.  
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1505 N. Mascher St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Baker Warehouse. ....Venango and G Sts., Phila.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.  
Philadelphia Concrete Roofing-Tile & Floor-Tile Co.,  
Nictown Lane and Powder Mill Road, Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.

Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.

Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEETROCK (Wall Board).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., & Co. ....10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## SLATE.

Emack, The John D. Co. ....Otis Bldg., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
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Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

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Uhrig Brothers. ....528 E. Wishart St., Phila.

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McFarland-Meade Co.,  
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## STEAM SHOVEL CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## STEEL SASH.

McFarland-Meade Co., 70th and Kingsessing Ave.

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John D'Lauro. ....55 E. Mermald Lane, Phila.

## STRUCTURAL STEEL.

Adelhelm & Phillips. ....1511 Sansom St., Phila.

## STUCCO.

Daniel C. Sinclair. ....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.

Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....269 S. 11th St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## VENTILATORS.

Iona Ventilator Co., Inc. ....2821 W. Dauphin St., Phila.

## VENTILATING SYSTEMS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## WALL BOARD, COMPO BOARD.

Ketcham, Howard. ....3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## WATER PAINT.

Southern, Wm. B., N. W. Cor. 12th and Spruce, Phila.

## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
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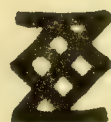
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 21

May 23, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
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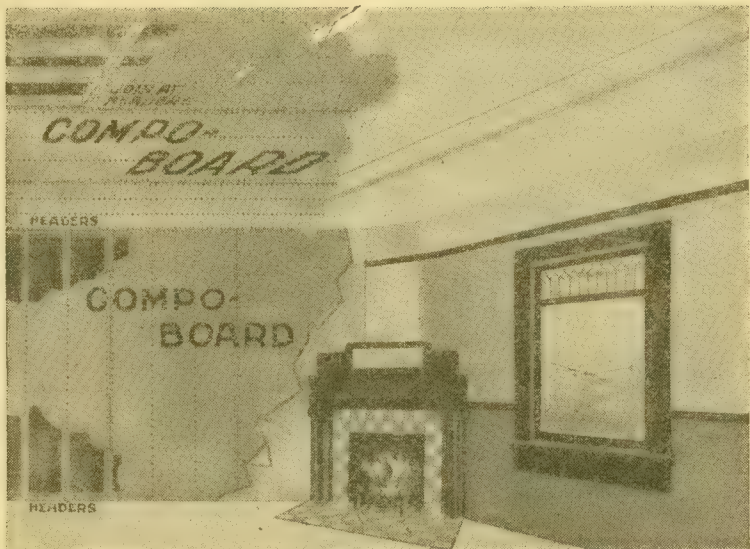
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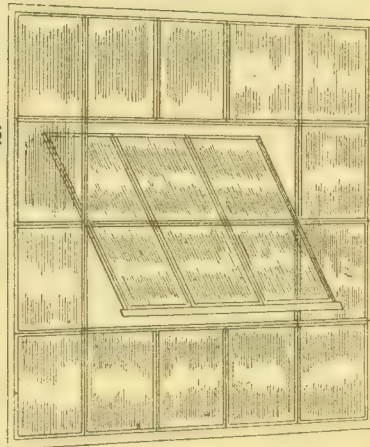
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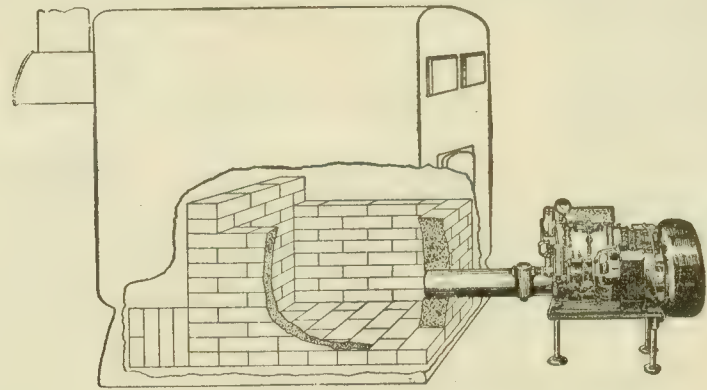
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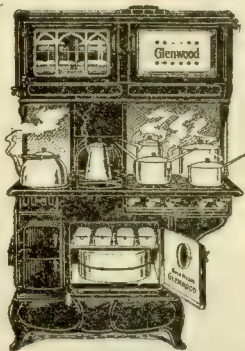
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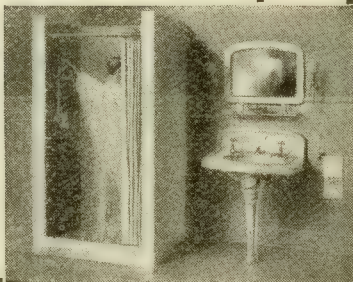
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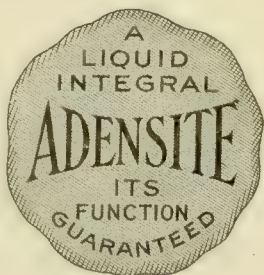
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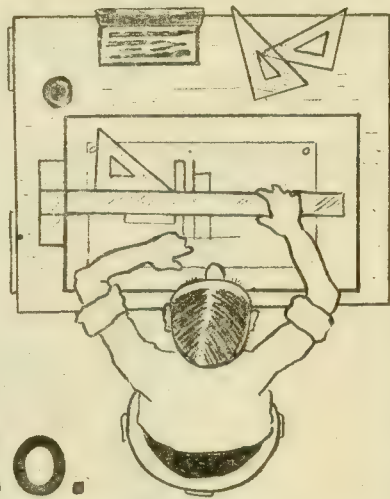
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 21

PHILADELPHIA  
May 23, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
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## Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residence**, Fifty-second and Woodbine avenue, Philadelphia. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, Joseph J. Matz, 735 Sansom street, Philadelphia. Brick and cut stone, 2½ stories, slate roof, mineral, oak and pine floors, hot water heat, electric lighting, metal lath, tile and marble work. Revised plans in progress. Architect will be ready for new bids in two weeks.

**Gymnasium Building**, Fox street and School House Lane, Germantown. Architects, Zant-zinger, Borie & Medary, Otis Building, Philadelphia. Owners, William Penn Charter School, Twelfth above Chestnut street. Plans being prepared. Too early for details.

**Bank Building**, 3961 Lancaster avenue, Philadelphia. Architect, Charles H. Wurster, Jr., 1542 North Twenty-ninth street, Philadelphia. Owners, Lancaster Avenue Title & Trust Co., care of architect. Brick, steel, concrete and stone. Plans in progress.

**Building (alts.)**, Northwest Corner Ninth and Noble streets, Philadelphia. Architect, Henry N. Miller, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick work, carpentry, mill work, painting, glazing, plumbing, electric work, plastering, oak and maple floors, bond. Architect taking bid due May 25th.

**Residence (alts.)**, 1810 Pine street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, C. T. McCarthy, M. D., on premises. Brick work, carpentry, mill work, hardware, painting, plastering, tile work. Architects taking bids due May 23rd.

**Shop**, South side Haverford avenue, East of Thirty-fourth street, \$5,000. Architect, private plans. Owner, A. P. Luckér, 5136

Parkside avenue, Philadelphia. Brick, 2 stories, 18x88 feet, slag roof, electric work. Owner will build.

**Garage**, North side Dupont street, East of Fleming street, \$3,000. Architect, private plans. Owner, Joseph W. Hyde, 357 Lyceum avenue, Philadelphia. Stone, 1 story, 99x18 feet, slate roof, cement floors, electric light. Owner will build.

**Store**, Northeast Corner Fleming and Dupont streets, Philadelphia, \$3,000. Architect, private plans. Owner, Joseph W. Hyde, 357 Lyceum avenue, Philadelphia. Brick, 1 story, 20x36 feet, slag roof, pine floors, electric lighting. Owner will build.

**Workshop**, East side Fleming street, North of Dupont street, \$2,500. Architect, private plans. Owner, Joseph W. Hyde, 357 Lyceum avenue, Philadelphia. Stone, 1 story, 9x36 feet, 11x100 feet, electric work. Owner will build.

**Church**, Northeast Boulevard, Seventh and Wyoming streets, Philadelphia. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, Rev. E. C. Sandt, 5203 North Carlisle street, Philadelphia. Stone and castone, slate and slag roof, cement and pine floors, steam heat, electric lighting, iron work, terra cotta. Architects taking bids.

**Residence (alts. and add.)**, 3234 North 17th st., Philadelphia. Architect, William H. Wooters, 816 W. Allegheny Avenue, Phila. Owner, Reuben Rosenthal 1424 W. York St. Interior alterations, brick add., 1 story, 14x18 feet, slag roof, hardwood floors, stair work, tile work, heating and electric alterations, plumbing. Architect is ready for bids due June 1st.

**Research Laboratory Building**, Corinthian

and Girard avenues. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Lankenau Hospital, on premises. Brick, steel, cut stone and blue stone, 2 stories and basement, 104x54 feet, slag roof, cement floors, elevators, waterproofing, iron work, bond, hollow metal doors, rolled steel skylights, tile, marble and terrazzo, metal lath, electric lighting, steam heating. Architect taking bids due May 28th.

**Moving Picture Theatre**, 2217-19 South street, Philadelphia. Architects, Tunis & Genter, 1423 Locust street, Philadelphia. Owner, Mayer Milgram, care of architect. Brick, cut stone, architectural terra cotta and concrete, 1 story and mezzanine, 47x154 feet, slag roof, composition and oak floors, tile work, hollow metal sash, fire doors (heating, lighting, plumbing and interior decorating reserved). Architect taking revised bids due May 24th.

**Bungalow**, Forty-ninth and Monument avenue, Philadelphia. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, A. E. Jawer, 604 North Broad street, Philadelphia. Hollow tile, brick, stucco and limestone, 1 story, 38x52 feet, tile roof, hardwood floors, hot water heat, electric lighting, tile work. Architect taking bids due May 26th.

**Store and Offices**, 1107 Walnut street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Bogash & Klutsch, Victory Building, Philadelphia. Brick, terra cotta and steel, 2 stories, 40x100 feet. Architect taking bids due May 26th.

**Office Building**, 1352 North Cadwallader street, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Own-

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ers, A. Taylor Co., 410 Commerce street, Philadelphia. Brick. Sketches drawn. Too early for details.

**Service Station and Garage**, Broad street below Allegheny avenue, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Concrete and steel, 3 stories. Preliminary plans in progress.

**Building (alts. and add.)**, Germantown avenue and Hottter street. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, name withheld. Converting present building to garage, 3 stories, general alterations and additions. Plans in progress.

**Bungalow**, Forty-ninth and Monument avenue, Philadelphia. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owner, A. E. Jawer, 604 North Broad street, Philadelphia. Hollow tile, brick, stucco and limestone, 1 story, 38x52 feet, tile roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

**Synagogue**, Porter and Philip streets, Philadelphia. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owners, name withheld. General alterations and add. Plans in progress.

**Fire Stations (3)**, 1507 Moyamensing avenue, Howard street and Columbia avenue, and Main and Center streets, Philadelphia. **Fire Station** (replacing present structure with new building), 826 Newmarket street, Philadelphia. Architect, City Architect John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Safety, Bureau of Fire, Director Cortelyou, City Hall. Plans drawn. Work contemplated.

**Stores and Apartments**, 1835 Columbia avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. New partitions, new store front, electric lighting. Plans in progress.

**Apartment House**, Broad street and Seventieth avenue, Philadelphia. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone, 3 stories, will contain 36 apartments. Plans about completed.

**Residence**, Rising Sun and Tabor Road, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owner, Dr. W. Harmer Good, 5309 Rising Sun avenue. Brick, cut stone and steel, 2½ stories, 60x35 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, terra cotta, bond. Revised plans in progress.

**Apartments (alts. and add.)**, 345 North Fifty-sixth street, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, John S. Hemphill, 343 North Fifty-sixth street, Philadelphia. General alterations and additions. Plans about completed. Owner will take general bids.

**Apartment House**, Southwest Corner Thirty-eighth and Chestnut streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Main Realty Co., care of architects. Brick, limestone and steel, 4 stories, 152x60 feet, slag roof, oak and pine floors, roof ventilators, iron work, steam heat, electric light, tile and marble work, rolled steel skylights. Owners taking sub-bids.

**Club House**, Eighth and Tabor Road, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Buff brick, 2 stories and basement, 80x213 feet, red tile roof, steam vapor heat, electric light, tile and marble work, plumbing, hardwood floors, dumb waiter. Revised plans in progress. Architect will be ready for bids in two weeks.

**Office and Fraternity Building**, Nineteenth and Fitzwater streets, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Grand Order of

Odd Fellows, care of architects. Brick, steel, concrete and stone, 6 stories, 56x125 feet. Plans completed. Architects will be ready for bids in a few days.

**Recreation**, Berks and Blair streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Barclay H. Warburton, Director, Room 595, City Hall. Reinforced concrete, brick, cut stone, limestone and steel, 2 stories, slag and tin roof, cement, maple and pine floors, hollow tile, metal ceilings, dampproofing, iron work, bond, hollow metal sash, metal lath. Owners taking bids due May 28th at noon. Plans may be obtained from architects.

**Office and Storage Building**, Sixth and Washington Square, Philadelphia. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Lea & Febiger, 706 Sansom street, Philadelphia. Stone and brick, 3 stories and basement, 50x90 feet, built-up roof, concrete floors, freight elevator, fire doors, marble work, vapor heat, electric lighting. Preliminary plans in progress.

**Store and Offices**, 5536 Baltimore avenue, Philadelphia. Architect, Clarence L. Caspary, 225 South Seventeenth street, Philadelphia. Owner, Nathan Korn, 5516 Baltimore avenue, Philadelphia. Brick, art cement work, 18x85 feet, slag roof, hardwood floors, hot water heat, electric light. Architect taking bids due May 24th.

**Recreation Building**, Cohocksink, Ann, Cedar and Cambria streets. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Reinforced concrete, brick and cut stone, slag roof, mastic floors, hollow tile, metal lath, dampproofing, rolled steel doors, bond. Owners will be ready for bids in a few days.

**Residences (2)**, West side Fifth street, North of Cheltenham avenue, and East side Fairhill street, North of Cheltenham avenue, \$10,000 each. Architect, Warren Neff, 2002 North Sixty-second street, Philadelphia. Owner, E. C. Durell, 1713 North Twenty-fourth street, Philadelphia. Stone, 3 stories, 25x41 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences and Garages (40), Stores (4)**, Linmore avenue, Sixty-fifth to Sixty-sixth streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Levin Brothers, 510 Commonwealth Building, Philadelphia. Brick, 2 stories, 20x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light, metal lath, hollow metal sash and skylights, flush bulks. Owners taking sub-bids.

**Office, (2) Apartments and Garage**, Eighth and Montgomery avenue, Philadelphia. Architect, William B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, C. Ridgway Briggs, 1803 North Eighth street, Philadelphia. Brick, 1 story add., 18x30 feet, slag roof, hardwood floors, hot water heat, electric lighting, general interior alterations. Architect will be ready for bids on revised plans in one week.

**Residences (21)**, Highland avenue and Shawnee street. Architect, William K. Hinkle, care of owner. Owner, J. T. Phister, Logan and Keyser streets, Philadelphia. Brick, 2 stories, 16x35 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work, garages in basements. Owner will build and is taking sub-bids.

**Stores and Apartments (3)**, Sixtieth and Hazel avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank Vincent, 6000 Hazel avenue, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hardwood floors, hot water

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**Garage**, Sixtieth and Springfield avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Glenn O. Martin, Forty-first and Chester avenue, Philadelphia. Brick, 1 story, 90x176 feet, slag roof, cement floors, steam heating, electric lighting. Owner ready for sub-bids.

**Residences (24)**, Ogontz avenue between Sixty-sixth and Sixty-seventh avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank V. Williams, Sixty-sixth and Ogontz avenue, Philadelphia. Brick, 2 stories, 20x33½ feet (note change), slate, slag and tin roof, hardwood floors, hot water heat, electric light, tile and marble work, garage in basement. Owner ready for sub-bids.

**Administration Building**, Twenty-first and Parkway, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Site purchased. Plans in progress. Bids will be taken in spring of 1924.

**Swimming Pool**, Orthodox and Hedge streets, Frankford, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, City of Philadelphia, Department of Public Welfare, Bureau of Recreation. Plans in progress.

**Swimming Pool**, Hunting Park and Blaine avenues, Philadelphia. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Plans in progress.

**Service Wing**, Broad and Ontario streets, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Samaritan Hospital, on premises. Brick, reinforced concrete, cut stone, steel, limestone and granite, 7 stories and basement and sub-basement, 181x50 feet, slag and tile roof, concrete and linoleum floors, hollow tile, waterproofing, terra cotta, iron work, iron stairs, rolled steel skylight, sash, tile and marble work, metal lath (heating, lighting and plumbing reserved). Architect taking bids due May 28th. Trust company bond.

**Bank Building**, 4643-45 Frankford avenue, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Western Saving Fund, 1000 Walnut street, Philadelphia. Brick, cut stone and steel, 1 story and basement, 83x40 feet, slag roof, cement floors, waterproofing, iron work, floor hardener, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath. Architects taking bids due May 26th.

**Group of Buildings (alts.)**, Independence Hall, Fifth and Chestnut streets, Philadel-

phia. Architect, City Architect John P. B. Sinkler, 1211 Chestnut street. Owners, Department of City Property, Bureau of Public Works, 216 City Hall. Brick work, plastering, hardware, painting, glazing, metal lath, bond, iron and steel work, carpentry. Owners taking bids due May 24th.

**Church (alts.)**, Thirty-eighth and Spring Garden streets, Philadelphia. Architects, McGinnish & Walsh, 101 Boylston street, Boston, Mass. Owners, St. Agatha's Roman Catholic Church, Rt. Rev. Mgrs. Michael C. Donovan, rector, Thirty-eighth and Spring Garden streets. Brick, steel and cut stone, carpentry, mill work, plastering, cement and oak floors, painting, metal lath, marble work, rolled steel sash, iron stairs and iron work. Architects taking bids.

**Warehouse and Siding**, Main and Harvey streets, Wissahickon, Philadelphia. Architect and engineer, Ralph J. Lawrence, 525 East Gates street, Roxborough, Philadelphia. Owners, John P. Holt, Inc., on premises. Reinforced concrete, brick and steel, 4 stories, 57x75 feet, asbestos asphalt roof, concrete floors, elevators, waterproofing, iron work and stairs, floor hardener, bond, rolled steel doors, copper skylights, rolled steel sash, electric lighting (heating reserved), Truscon agatex. Architect taking bids due May 31st.

**Main Building (add.)**, Forty-first Ward, Torresdale, Philadelphia. City architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, 592 City Hall, Philadelphia. Brick, stucco, blue-stone, limestone and steel, 1 story and basement, 29x33 feet, slag roof, pine, cement and composition floors, roof ventilators, bond, marble work, metal lath. Bids submitted on general construction: George H. Evans, Inc., 109 North Thirteenth street, Philadelphia, \$23,912; Mitchell Brothers, 2125 Race street, Philadelphia, \$24,900; E. C. Durell, 1716 North Twenty-fourth street, Philadelphia, \$24,986.

**Engine Testing Building**, Spec. 4835, Navy Yard, Philadelphia. Architect, private plans. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Steel and stucco, 24 feet high, 96x25 feet, built-up roof, concrete floors, hollow metal doors, rolled steel sash, metal lath, steam heat, electric lighting. Lowest bidders: McCormick & Lennon, 2716 South Hutchinson street, Philadelphia: Item 1, \$21,300; Item 2, \$36,836.

**Main Building**, Forty-first Ward, Torresdale, Philadelphia. Architect, City Architect John P. B. Sinkler, 1211 Chestnut street. Owners, Department of Public Welfare, Bureau of Charities and Correction, 592 City Hall. Lowest bidders on plumbing, heating and light-

ing: Plumbing, Bulman Brothers, Fifth and Cumberland streets, \$2,450; heating, Jacob Bagger, 2124 Cumberland street, \$710; electric, Philadelphia Steam Heating Co., 3818 Lancaster avenue, \$500.

**South Street Bridge**, Philadelphia. Owners, City of Philadelphia, Bureau of Surveys, City Hall. Paving and supplementary work. Low bidder: M. & J. B. McHugh, 892 North Mar-koe street, Philadelphia, \$34,954.30.

**Residences (33)**, (7) Rockland and Marshall streets, and (26) Seventh and Loudon streets, Philadelphia, \$167,000. Owners, Fernsten & Epstein, 1018 South Tioga street, Philadelphia. Brick, 2 stories, (2) 16x54 feet and (31) 15x29 feet, 11x18 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

**Residence and Store and Residences (25)**, C and Courtland streets, \$119,500. Architect, private plans. Owner, Frank Schilling, 175 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x38 feet, (25) 15x28 feet, 12x10 feet, hot water heat, electric light. Owner will build.

**Residences (27) and Residence and Store**, Ogontz avenue and Church Lane, Philadelphia, \$158,500. Architect, private plans. Owner, Charles H. Eckman, 1941 Church Lane, Philadelphia. Brick, 2 stories, 16x31 feet, 12x11 feet, and (1) 3 stories, 40x36x13 feet, slag roof, hot water heat, electric light. Owner will build.

**Shop**, South side Summer street, West of Fifty-sixth street, Philadelphia, \$7,000. Architect, private plans. Owner, E. J. Schuenman, 1641 South Fifty-second street, Philadelphia. Brick, 2 stories, 37x60 feet, slag roof, pine floors, electric work. Owner will build.

**Residences (2)**, 7027-7031 Glenlock street, Philadelphia, \$5,000 each. Architect, private plans. Owner, E. Samuel Gercke, Tyson and Walker streets, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residence and Store**, Southwest Corner Stafford and Anderson streets. Architect, private plans. Owners, J. Franklin Moss Co., Anderson and Price streets, Philadelphia. Brick, 2 stories, 19½x42 feet, slag roof, hardwood floors and pine floors, hot water heat, electric light. Owner will build.

**Residences (4)**, North side Tyson street, West of Rising Sun avenue, \$4,200 each. Architect, private plans. Owners, Harry F. Harting & Son, 7403 Bingham street, Philadelphia. Brick and frame, 2 stories, 20x29 feet, hot water heating, electric lighting. Owner will build.

**Apartment (alts. and add.)**, 1601 Poplar street, Philadelphia, \$4,000. Architect, private plans. Owner, A. Frank, 1522 South Sixth street, Philadelphia. Brick, 1 story, 11x18 feet, general alterations. Owner will build.

**Residence**, East side Second street, North of Wyoming avenue, \$4,500. Architect, private plans. Owner, William Banger, 4703 North Second street, Philadelphia. Brick, 2 stories, 18x38 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owner will build.

**Residence (add. and alts.)**, Northwest Corner Durham and Stenton avenue, \$3,500. Architect, private plans. Owner, A. S. Tourison, Jr., 7014 Boyer street, Philadelphia.

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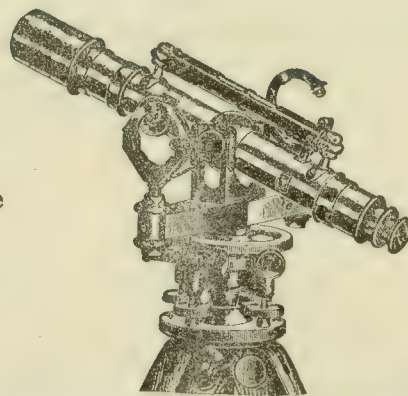
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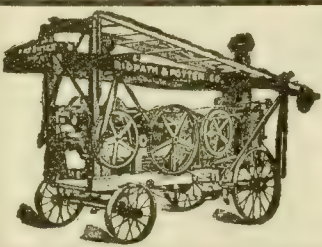
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**Residences (2)**, South side Wakeling street, West of Cottage, \$4,200 each. Architect, private plans. Owners, Tagert & Wilson, 4924 Cottage street, Philadelphia. Brick, 2 stories, 18x30 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Dairy and Cold Storage Building**, Northeast Corner Forty-fifth and Parrish streets, \$3,500. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Scott Powell Dairies, on premises. Reinforced concrete, 1 story, 40x75 feet, cement floors. Architects will build.

**Apartment (add.)**, 2012 North Twenty-second street, Philadelphia, \$3,200. Architect, private plans. Owner, Dr. Frederick Traganza, on premises. Brick, 2 stories, 16½x14½ feet, slag roof, hardwood floors, electric lighting. Owner will build.

**Garage**, 3901 Chestnut street, Philadelphia, \$5,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 1 story, 23x37 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (2)**, West side Walker street, South of Howell street, \$3,800 each. Architect, private plans. Owner, A. Huber, 3028 Howell street, Philadelphia. Brick, 2 stories, 14x36 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Garage**, East side Clearview street, North of Pechin street, \$3,000. Architect, private plans. Owner, Thomas Bancroft, 4223 Pechin street, Philadelphia. Brick, 1 story, 40x80 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residence (add.)**, 728 South Marvine street, Philadelphia, \$2,500. Architect, private plans. Owner, A. Abruzzi, 1119 Fitzwater street, Philadelphia. Brick, 3 stories add., 11½x14 feet. Owner will build.

**Garage**, 2407 East Somerset street, Philadelphia, \$2,500. Architect, private plans. Owner, D. Fahy, 2876 Cedar street, Philadelphia. Brick, 1 story, 30x45 feet, slag roof, cement floors. Also store, brick, 1 story, 15x35 feet, electric lighting, \$1,500. Owner will build.

**Garage**, 8057-59 Erdrick street, Philadelphia, \$2,100. Architect, private plans. Owner, A. Goldi, 8068 Erdrick street, Philadelphia. Stone, 1 story, 80x19½ feet, cement floors. Owner will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Industrial Building**, Twenty-fifth and Hunting Park avenue, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, E. G. Budd Mfg. Co., on premises. Brick, steel and reinforced concrete, 110x15 feet, built-up roof, wood block and cement floors, waterproofing, iron work, bond, rolled steel doors, hollow metal sash. Contract awarded to Wark Co., 231 South Broad street, Philadelphia.

**Residence**, Medary avenue, between Eleventh and Twelfth streets, Philadelphia. Architect, W. Ellis Groben, Oak Lane, Philadelphia. Owner, Harry Ling, Medary avenue, Oak Lane. Stone, 2½ stories, 36x29 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, plumbing, brick terraces, garage in basement. Contract awarded to Gilbert Smith, 1003 Sixty-ninth avenue, Oak Lane.

**Manufacturing Building (add.)**, Southwest Corner Frankford and Torresdale avenues, Philadelphia, \$20,000. Architect, private plans. Owners, Edgewater Dye Works, Frankford

and Torresdale avenues. Brick and steel, 1 story, 50x150 feet, slag roof, electric work, cement floors, steel sash. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

**Apartment (add. and alts.)**, 3345-49 North Nineteenth street, \$10,000. Architects, Tomlinson & Schwartz, Jenkintown, Pa. Owner, John D. Ellis, Ashbourne, Pa. Brick, 4 stories add., 16 feet 9 inches x 16 feet, and 16x30 feet, oak and pine floors, electric light. Contract awarded to Joseph D. Tomlinson, 1710 Venango street.

**Residence and Garage**, Queen Lane Manor, Philadelphia, \$12,000. Architects, Samuel D. Hawley Co., 30 South Seventeenth street, Philadelphia. Owner, Herbert C. Gray, 1324 Mt. Vernon street, Philadelphia. Frame and plaster, 2½ and 1½ stories, 33x34 feet and 22x14 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to Cleveland Yerger, 1337 Seventy-second avenue.

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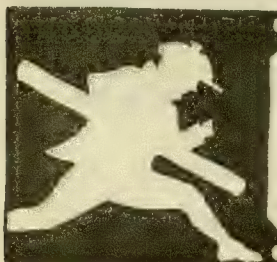
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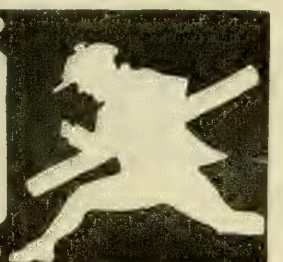


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nue, Philadelphia, \$11,000. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Harry Goldstein, on premises. Brick, 2 stories, 17x80 feet, slag roof, hot water heating, electric lighting, metal lath, tile and marble work, hollow metal sash, rolled steel skylights, bond, metal bulks. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

**Residence (alts.),** 402 Green street, Philadelphia, \$7,000. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, Dr. Samuel Eglick, 525 North Fourth street, Philadelphia. Brick, cut stone work, carpentry, mill work, plastering, hot water heat, electric light, plumbing, metal lath, tile work, marble work, hollow metal skylights, oak and pine floors, painting. Contract awarded to H. M. Shandles, 1211 Chestnut street, Philadelphia.

**Garage,** Front and Thompson streets, Philadelphia, \$17,000. Architect, Peter Kuhn, 3508 North Eighth street, Philadelphia. Owner, Gottlob Fellmeth, 1253 North Front street, Philadelphia. Brick, 1 story, 69x100 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Office Building,** 157 North Fourth street, Philadelphia, \$19,000. Architect, private plans. Owners, Louis E. Stolz & Bro., 155 North Fourth street, Philadelphia. Brick, 2 stories, 20x50 feet, slag roof, steam heat, electric light, pine floors, tile work. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street.

**Garage and Service Station,** Southeast Corner Sanger street and Oxford avenue, Philadelphia, \$15,000. Architect, Walter Antrim, 5025 Penn street, Philadelphia. Owner, C. Warren Allen, Oxford and Penn streets, Philadelphia. Brick, 2 stories, 32x30 feet, and 1 story, 20½x70 feet, slag roof, cement and pine floors, steam heat, electric light, steel sash. Contract awarded to Rush Brothers, 1006 Harrison street, Philadelphia.

**Building (alts. and add.),** Twenty-fourth and Carlton streets, Philadelphia. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owners, Knickerbocker Lime Co., Twenty-fourth and Callowhill streets. Concrete, brick, cut stone, limestone and steel, carpentry, mill work, roof repairs, metal lath, tile work, metal weather strip, rolled steel skylights, bond, iron work. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Automobile Show Room and Offices,** 1504 Vine street, Philadelphia, \$4,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edward F. Flood, Broad and Venango streets, Philadelphia. Brick, 1 story, 18x50 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to George E. Gross, 1613 Chestnut street.

**Residence and Store (repairs),** 7448 Devon street, Philadelphia, \$3,950. Architect, pri-

vate plans. Owner, Edgar G. Miller, on premises. General alterations, carpentry, mill work. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

**Store (add.),** Northeast Corner Marshall and Tasker streets, Philadelphia, \$4,000. Architect, private plans. Owner, J. Durcuff, 1634 South Sixth street, Philadelphia. Brick, 2 stories, 15x30 feet, pine floors, slag roof, electric light. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

**Residence and Restaurant (add. and alts.),** Southeast Corner Wayne avenue and Carpenter street, Philadelphia, \$3,500. Owner, William R. Kadwill, on premises. Brick, 1 story, 33x11 feet, slag roof, pine floors, general alterations. Contract awarded to G. H. Stier, 810 Dauphin street, Philadelphia.

**Residences (12),** Buckius and Tacony and Melrose streets, \$52,000. Architect, private plans. Owner, John Gabriel, Orthodox and Melrose streets, Philadelphia. Brick, 2 stories, 16x44 feet, 17x32 feet, and 16x32 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to John H. Rockie, 2231 Orthodox street.

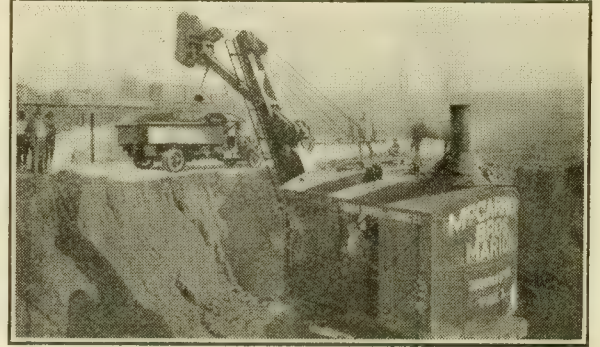
**Residences (13),** 6500-24 Lansdowne avenue, Philadelphia, \$95,000. Architect, private plans. Owner, Joseph Permes, 529 Snyder avenue, Philadelphia. Brick, 2 stories, (2) 16x85 feet, (11) 15x35 feet, 11x10 feet, slag roof, hot water heating, electric lighting. Contract awarded to David Brown, 202 Ritner street, Philadelphia.

**Residence and Store (alts. and add.),** 48 North Fifty-second street, \$13,525. Owner, Andrew M. Repetto, 429 South Fifty-first street, Philadelphia. Brick, 3 stories add., 16x6 feet and 16x14 feet, electric lighting, hardwood and pine floors, general alterations. Contract awarded to J. Harvey Rea, 1019 Appletree street, Philadelphia.

**Residences (4),** 6006-08-10-12 Rising Sun avenue, Philadelphia, \$11,000 each. Architect, private plans. Owners, Lawndale Realty Co., Lawndale, Philadelphia. Brick, 3 stories, 20x28 feet, and 2 stories, 20x38 feet, slag roof, hot water heat, electric light, tile work, hardwood floors. Contract awarded to W. J. Cowell, 5712 Crittenden street.

**Garage,** 2341-45 North Ninth street, Philadelphia, \$10,000. Architect, private plans. Owner, Harold B. Mulligan, Tenth and Germantown avenue, Philadelphia. Brick, 1 story, 50x114 feet, cement floors, electric work. Contract awarded to Daniel Carr, 3331 Frankford avenue.

**Residence,** 4526 North Front street, Philadelphia, \$5,000. Architect, private plans. Owner, Mrs. M. Schrank, 4522 North Front street, Philadelphia. Brick, 2 stories, 16x48



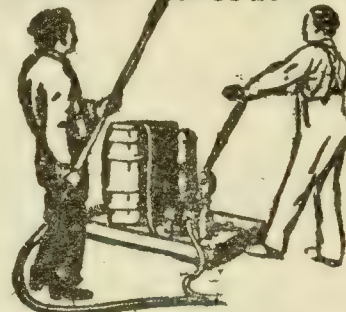
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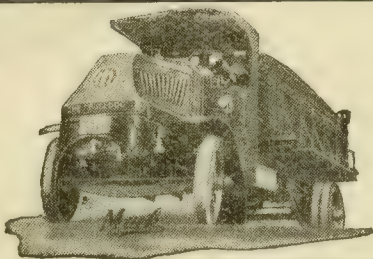
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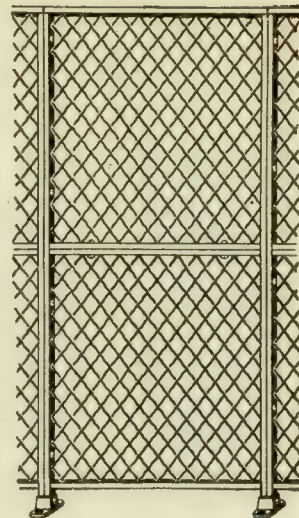
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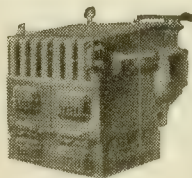
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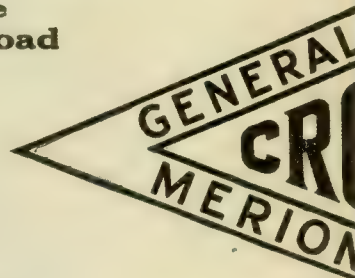
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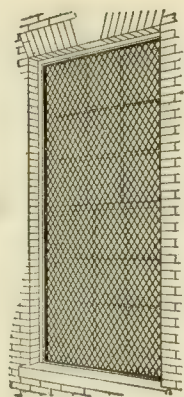


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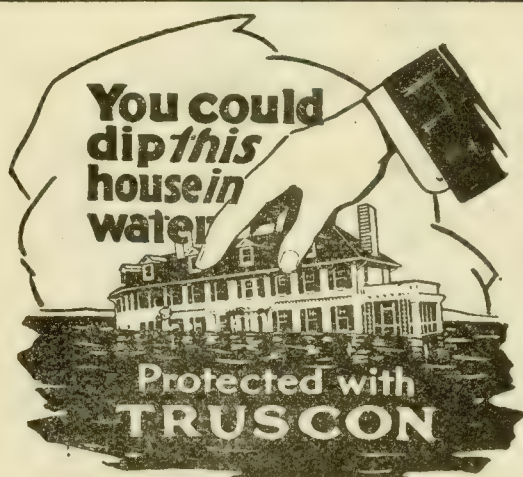
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feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to Charles H. Roberts, 129 East Mentor street, Philadelphia.

**Apartment (alts. and add.),** 166 West Coulter street, Philadelphia, \$5,000. Architect, private plans. Owner, Barbara Front, on premises. Brick, 1 story, 16x27 feet, second story, 8x12 feet, general alterations. Contract awarded to L. D. Stites, 126 Herman street, Philadelphia.

**Residence and Store (add.),** Southeast Corner Church Lane and Beechwood, \$6,600. Architect, private plans. Owner, Theo. S. Morgan, on premises. Brick, 1 story, 24x46 feet, 3x13 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to John F. Carberry, 5729 McMahon avenue.

**Residence and Store (add. and alts.),** Northwest Corner Sixteenth and Wallace streets, Philadelphia, \$5,000. Architect, private plans. Owner, Jacob Solomon, Southwest Corner Ninth and Walnut streets, Philadelphia. Brick, 1 story, 13x16 feet, general alterations. Contract awarded to S. Shor, 2530 South Sixth street, Philadelphia.

**Garage (add.),** 6122 Germantown avenue (rear), \$4,000. Architect, private plans. Owner, Harry Ackerman, on premises. Brick, 1 story, 18x105 feet, slag roof, cement floors. Contract awarded to H. B. Hastings, 204 East Haines street.

**Residence and Store (alts.),** Northeast Corner Thirteenth and Rodman, \$4,000. Archi-

tect, private plans. Owner, Louis Lervin, Southeast Corner Sixteenth and South streets. General alterations. Contract awarded to Louis Friedman, 314 McKean street.

**Garage,** Northeast Corner Seventy-first and Upland avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Elmer Simon, on premises. Brick, 1 story, 75x18 feet, cement floors, electric work. Contract awarded to Thomas M. Cockerill, 2242 St. James Terrace.

**Storage (alts. and add.),** 1757-59 Staub street, Philadelphia, \$6,000. Architect, private plans. Owner, Jacob Staub, 4155 Germantown avenue, Philadelphia. Brick, 2 stories, 34x55 feet, slag roof, general alterations. Contract awarded to T. D. Gregg, 1823 Cayuga street, Philadelphia.

**Residence and Store (alts. and add.),** 5104 Frankford avenue, \$5,000. Architect, private plans. Owner, S. Chiaverelli, on premises. Brick, third story add., 15x21 feet, extensive alterations. Contract awarded to J. M. Smukler, 1961 North Stanley street.

**Residence and Store (add. and alts.),** 4334 Frankford avenue, \$4,000. Architect, private plans. Owner, J. Sadel, on premises. Brick, 1 story, 12x8 feet, and 1 story, 3x12 feet, general alterations. Contract awarded to J. M. Smukler, 1961 North Stanley street, Philadelphia.

**Store and Residence (alts. and add.),** 2829 Germantown avenue, \$4,500. Architect, private plans. Owner, Dr. M. B. Brenner, on premises. Brick, 1 story, 11x8 feet, general

alterations. Contract awarded to Sloat Brothers & Husler, 5203 Haverford avenue.

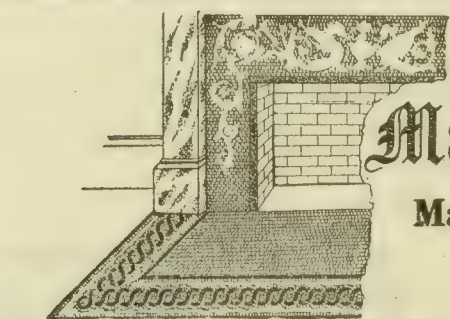
**Manufacturing Building (add.),** 445 West Berks street, \$4,950. Architect, private plans. Owner, Julius Bernheim, on premises. Brick, 1 story add., 28x48 feet, slag roof, electric lighting. Contract awarded to F. & S. Const. Co., 554 North Sixteenth street.

**Garage,** 3058 Tilton street, Philadelphia, \$2,200. Architect, private plans. Owner, J. Mazownkiewicz, 3058 Salmon street, Philadelphia. Brick, 2 stories, 16x40 feet, cement and pine floors, slag roof. Contract awarded to K. Lubiszewski, 3058 Salmon street, Philadelphia.

**Office (alts.),** 212 South Fifth street, Philadelphia, \$3,000. Architect, private plans. Owner, Basil Walsh, 504 Walnut street, Philadelphia. General alterations. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

**Auto Show Room (alts.),** North side Hunting Park avenue, West of Broad, \$2,800. Architect, private plans. Owner, Morris Haisfield, on premises. General alterations, carpentry, mill work, plastering. Contract awarded to E. E. Hollenback, 1804 Brandywine street.

**Residence and Store (alts. and add.),** 1615 West Columbia avenue, \$4,000. Architect, private plans. Owner, J. Perlman, on premises. Brick, 2 stories, 18x10 feet and 4x32 feet,



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general alterations. Contract awarded to J. Landau, 1806 North Seventh street, Philadelphia.

**Store and Shop (alts.),** 1526-28 Parrish street, Philadelphia, \$3,000. Architect, private plans. Owners, W. I. & S. P. Ray, 1543 Ridge avenue, Philadelphia. General alterations. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street.

**Residence (add.),** 1603 North Fifty-second street, Philadelphia, \$2,200. Architect, private plans. Owner, H. Mettleman, 730 Rockland street, Philadelphia. Brick, 1 story add., 16x12 feet. Contract awarded to S. Singer, 2221 South Sixth street, Philadelphia.

**Residence (alts. and add.),** 2266 North 19th street, Philadelphia, \$2,000. Architect, private plans. Owner, I. H. Harris, 2266 North Nineteenth street, Philadelphia. Brick, 1 story, 11x15 feet, general alterations. Contract awarded to W. W. Lange, Woodstock and Dauphin streets, Philadelphia.

**Building (alts.),** Northeast Corner Sixth and Rising Sun avenue, \$2,000. Owner, Louis Levin, Northwest Corner Second and South streets, Philadelphia. General alterations. Contract awarded to N. F. Epstein, 2221 North Franklin street.

**Garage,** Northwest Corner Ruan and Penn streets, Philadelphia, \$3,400. Architect, private plans. Owner, Henry Donohue, 4269 Penn street, Philadelphia. Brick, 1 story, 18x90 feet, cement floors, slag roof. Contract awarded to Tony Olivieri, 1578 Adams avenue.

**Residence and Store (alts. and add.),** 6430 Woodland avenue, \$2,775. Architect, private plans. Owner, Charles Faul, on premises. Brick, 1 story, 16x14 feet, general alterations. Contract awarded to Thomas M. Cockerill, 2242 St. James Terrace.

**Building (repairs),** West side Nixon street, South of Leverington, \$2,500. Architect, private plans. Owners, National Waist Company, on premises. General fire repairs. Contract awarded to E. L. Cuthbertson, 334 Roxboro avenue.

**School (alts.),** Northwest Corner Howard and Cambria streets, \$2,500. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. General alterations. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

**Residence (add.),** 2836 Memphis street, Philadelphia, \$2,000. Architect, private plans. Owner, Morris Rodis, on premises. Brick, 2 stories, 14x18 feet. Contract awarded to Joseph Cichiny, 2135 North Howard street, Philadelphia.

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## PENNSYLVANIA

# Construction News

**Bungalows or Residences (40),** Springfield and Sycamore avenues, Clifton Heights, Pa. Architect, private plans. Owners, Dawson & Martin, Inc., 1011 Chestnut street, Philadelphia. Plans not yet started. Owners will be ready for bids in about two months.

**High School,** Brighton Road and Island avenue, Pittsburgh. Architects, James Steen & Sons, Pittsburgh, Pa. Owners, Board of Education, George W. Gerwig, secretary, 725 Fulton street, Pittsburgh, Pa. Lowest bidders (David Oliver High School): P. H. Kelly Const. Co., 1713 Sansom street, Philadelphia, \$677,500; Rose & Fischer, Pittsburgh, Pa., \$679,000.

**High School,** Collingdale, Pa. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owners, Board of Education, Collingdale, Pa. Lowest bidders: Friel McLeister, Inc., 1615 Spruce street, Philadelphia, \$89,666; Chester Const. & Cont. Co., Chester, Pa., \$94,900; Bowden Const. Co., 1935 Chestnut street, Philadelphia, \$98,199. Plumbing, United Plumbing & Heating Co., 236 North Twelfth street, \$7,900. Heating, American Heating & Ventilating Co., Inc., 200 North Fifteenth street, \$7,995. Electric, Nagel Electric Co., 263 South Sixtieth street, \$3,064.26.

**Sunday School and Parsonage,** Sunbury, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, First Reformed Church, Sunbury, Pa. Brick and stone, 3 stories, 95x52 feet and 32x40 feet, slate roof, maple floors, concrete work, hot water heat, electric light, plumbing, tile work, rolled steel sash, structural steel and iron work. Plans in progress. Architect will take bids in two weeks.

**High School,** Watertown, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Board of Education, Watertown, Pa. Brick and stone, 3 stories, 75x70 feet, built-up roof, pine floors, unit system of heating, electric lighting, reversible sash, iron and steel work. Plans about completed. Architect will be ready for bids in one week.

**Hotel,** Uniontown, Pa. Architects, Dreher, Churchman & Paul, Otis Building, Philadelphia. Owner, name withheld. Brick, 8 stories, 145x150 feet, will contain 200 rooms, steam heating, electric lighting, tile and marble work, elevators. Preliminary plans in progress.

**Residences (5),** near Ardmore, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, William Darragh, Highland Park, Pa. Frame and stucco and stone and stucco, 2½ stories, 30x60 feet, slate and shingle roof, hardwood and pine floors, hot water heating, electric lighting, tile work, garages, 1 story, 20x22 feet. Plans completed. Owner is taking sub-bids.

**Parochial School,** Cheltenham, Pa. Architect, F. F. Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of the Presentation of the B. V. M., Rev. James J. Gibbons, Cheltenham, Pa. Brick, stucco, stone and steel, 2 stories, 64x48 feet, slag roof, pine and maple floors, hollow tile, metal lath, terrazzo, bond, terra cotta, iron work. Revised plans in progress.

**Manufacturing Building,** Steelton, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, slow burning, 4 stories, 60x105 feet, slag roof, pine floors, steam heat, electric lighting. Plans in progress.

**Apartments (6),** Wilkes-Barre, Pa. Architect, Ralph M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, H. and Clement Karofsky, 66 South Washington street, Wilkes-Barre, Pa. Brick, 3 stories, 54x98 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Residence (alts. and add.) to Apartment,** Wilkes-Barre. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Charles Bowman, Second National Bank Building, Wilkes-Barre, Pa. Brick, 3 stories, 20x20 feet, 15x12 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile work. Plans in progress.

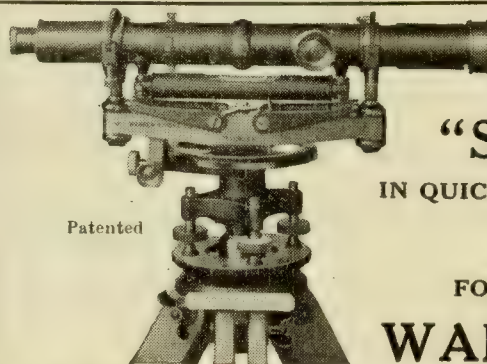
**Gymnasium, Dormitories and (Buildings add.),** Lancaster, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Franklin & Marshall College, Lancaster, Pa. Stone, brick, concrete and steel. Plans in progress. Too early for details.

**School,** Steelton, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, St. Peter's Roman Catholic Church, Rev. L. Gladek, 395 South Second street, Steelton, Pa. Brick, 1 story and basement, 8x30 feet (heating, electric work and plumbing reserved), composition roof, pine floors. Plans in progress.

**School,** Green Tree, Pa. Architect, Henry

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L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Willistown Township, Pa. Brick and stone, 2 stories, 35x80 feet. Revised plans about completed. Architect will be ready for bids in a few days, due June 4th.

**Civic Club and Apartment (alts.),** Williamstown, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg. Owners, Civic Club, Williamstown, Pa. General interior and exterior alterations, hot air heat, maple floors, electric light. Preliminary plans in progress.

**Office Building,** Third street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Henry Closter, care of architect. General interior and exterior alterations. Preliminary plans in progress.

**Elementary School,** North Queen street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, School Board, Lancaster, Pa. Brick, cinder block, 2 stories, 204x140 feet, tile and composition roof, hardwood floors (heating, electric work and plumbing reserved), marble work, metal lath, safety treads, roof ventilators, waterproofing, dampproofing, iron stairs. Plans in progress.

**Factory,** Lancaster, Pa. Architect, William P. Erisman, Woolworth Building, Lancaster, Pa. Owner, Barry Zecherts, care of architect. Brick, steel, 1 story, 100x34 feet, composition roof, rolled steel sash, fire doors. Plans in progress.

**Bank (alts. and add.),** Elizabethtown, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Elizabethtown National Bank, care of architect. Brick, 2 stories, irregular size, slag roof, pine floors, hot water heat, electric light, bank fixtures. Plans in progress.

**School (add. and alt.),** Neffsville, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Neffsville School Board, care of architect. Brick, cinder block, 1 story, 100x150 feet, composition roof, hardwood floors (heating, electric work and plumbing reserved), roof ventilators, skylights. Plans in progress.

**Church (alts.),** Carlton, Cambria County, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, St. Benedict's Church, Rev. F. Wolf, Carlton, Pa. Stone, 60x130 feet, new leaded glass windows. Plans in progress.

**Bridge,** North street, over Susquehanna River, Wilkes-Barre. Engineer, B. H. Davis, 17 Battery Place, New York. Consulting architects, Carrere & Hastings, 52 Vanderbilt avenue, New York. Owners, Luzerne County, care of Ambrose West, County Commissioner, Court House, Wilkes-Barre, Pa. Plans completed.

**Bridge,** Pittston, Pa., over Susquehanna River. Engineer, David A. Keffe, 711 South Main street, Athens, Pa. Owners, Luzerne County, care of Ambrose West, County Commissioner, Court House, Wilkes-Barre, Pa. Reinforced concrete. Plans completed.

**Apartments (4),** Salsbury Township, Lehigh County, Pa. Architect, C. W. Grossman, Allentown, Pa. Owner, Herbert Siesholtz, care of architects. Brick, 2 stories, 25x60 feet, slate roof, pine floors, electric lighting. Plans in progress.

**Parish Hall,** Hazleton, Pa. Architect, P. B. Sheridan, Markle Building, Hazleton, Pa. Owners, Holy Trinity Slavoc Roman Catholic Church, Rev. Andrew Pavie, 123 Wyoming street, Hazleton, Pa. Brick, 1 story and basement. Plans completed. Architect ready for bids.

**Store (alts. and add.),** Lewistown, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, J. Charles Shoe Store, Main street, Lewistown, Pa. Brick, 2 stories, 30x35 feet, shingle roof, pine floors, hot water heat, electric light. Owner will build.

**Factory,** near Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owners, National Bearings Co., 637 Lancaster avenue, Lancaster. Brick, steel, 1 story, 100x30 feet, composition roof, pine floors, electric light, rolled steel sash, fire doors. Owner will build.

**Warehouse (add.),** Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Block Brothers, 419 North Prince street, Lancaster, Pa. Brick, 4 stories, 60x90 feet, 60x60 feet, slag roof, wood floors, electric light, freight elevators, rolled steel sash, fire doors. Architect ready for bids.

**Church (alts.) and Parish House,** Pine street, Harrisburg, Pa. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa., and Cram & Ferguson, 33 West Forty-second street, New York, Associated. Owners, Pine Street Presbyterian Church, Rev. W. C. Cherry, Harrisburg. Stone, 3 stories, 70x130 feet, slag roof, hardwood floors, electric

light, tile work. Architects ready for bids.

**Rectory,** Olyphant, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. J. Murphy, Olyphant, Pa. Brick, 1½ stories, 42x50 feet, tile roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

**Orphan Asylum,** Nanticoke, Pa. Architect, A. I. Prawdzik, Scranton Life Building, Scranton, Pa. Owners, St. Stanislaus Parish, Rev. V. Biczysko, Nanticoke. Interlocked tile and steel, 2½ stories, 120x72 feet, slate and slag roof, pine and concrete floors, vapor heat, electric light, metal lath, hollow tile slate treads, rolled steel sash and skylights, fire doors, iron stairs, ornamental iron work. Architect ready for bids.

**Parsonage,** Scranton, Pa. Architect, A. I. Prawdzik, Scranton Life Building, Scranton, Pa. Owners, Germantown Methodist Episcopal Church, Rev. Kamnitz, Scranton, Pa. Frame, stucco, 2½ stories, 27x32 feet, asphalt shingle roof, pine floors, vapor heat, electric light, tile work. Architect ready for bids.

**Church (alts.),** Bird street and Prospect avenue, Scranton, Pa. Architect, A. I. Prawdzik, Scranton Life Building, Scranton, Pa. Owners, German Methodist Episcopal Church, Rev. Kamnitz, Scranton, Pa. New tower, new windows, general alterations. Architect ready for bids.

**School,** Pittston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Pittston School Board, J. Callahan, secretary, Pittston. Brick, 2 stories and basement, 66x125 feet, slag roof (heating, electric light and plumbing reserved), hollow tile, metal lath, roof ventilators, rolled steel skylights. Owners ready for bids.

**Twin Residences (4),** North Catasauqua, Pa., \$32,000. Architect, C. W. Grossart, 603 Hamilton street, Allentown, Pa. Owners, Lehigh Land Developing Co., Sixteenth and Hamilton streets. Brick, 1½ stories, 32x40 feet, asbestos shingle roof, hardwood floors, pipeless heat, electric light. Owners will build.

**Residence (alts.),** Shenandoah, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, C. J. Schmidt, Shenandoah, Pa. (Plumbing, heating and electric work reserved), asbestos shingle roof, hardwood floors, painting, hardware, steam heat, electric light, plumbing, tile work. Owner will take bids from local contractors.

**Store and Apartment,** Newtown, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Jacob Schmidt, Newtown, Pa. Brick, 2 stories, 25x60 feet, slate roof, pine floors, steam heat, electric light. Owner will build.

**Residence,** Yorktown, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadel-

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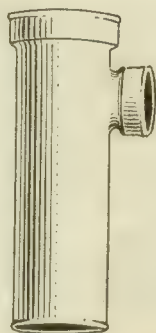
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phia. Owner, Charles L. Rodgers, Yorktown, Pa. Hollow tile and stucco, 2½ stories, 28x45 feet, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Owners will build.

**Locust and Lehigh Central Office Building**, Dormont, near Pittsburgh. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway. Brick, concrete and steel, 2 stories and basement, 147x85 feet, slag roof, cement floors, steam heat, electric light, tile work, bond. Bids due May 26th.

**Bank**, Third and Calder streets, Harrisburg, Pa. Architects, Simons, Brittain & English, Pittsburgh, Pa. Owners, Keystone Bank, J. P. McCullough, Harrisburg, Pa. Granite, 60x75 feet, composition roof, hardwood floors, tile, marble and terrazzo work, electric light, roof ventilators, vault. Architects taking bids due May 24th.

**Stewart Memorial Library**, Chambersburg, Pa. Architects, Furness Evans Co., 315 South Fifteenth street, Philadelphia. Owners, Wilson College, care of Mr. Bartle, business manager, Chambersburg, Pa. Brick, stone, cut stone, reinforced concrete and steel, 1 story, basement and gallery, 115x42 feet, slate roof, woodoleum and cement floors, steam heat, electric lighting, metal lath, marble work, hollow metal sash, bond, iron work. Owners taking bids due May 25th.

**Residence**, City Line and Penberry avenue, Delaware County, Pa. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Otto Lang, care of architect. Stone, 2½ stories, 28x40 feet, slate roof, hardwood floors, electric lighting, hot water heating, electric lighting, tile work. Architect taking bids due May 25th.

**Residence**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Richard Howell, Bethlehem, Pa. Brick, cinder block, 2½ stories, 36x29 feet, slate roof, hardwood floors, tile work. Owner taking bids due as soon as possible.

**Parish House and Church**, East Mauch Chunk, Pa. Architect, M. G. Prutzman, Court House, East Mauch Chunk, Pa. Owners, St. John's Evangelical Lutheran Church, care of John W. Dieckman, secretary, 927 Centre street, East Mauch Chunk, Pa. Stone. Owners taking bids due May 25th at 6 P. M.

**Hydrothapentic Building**, Retreat, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, George Baum, Franklin street, Wilkes-Barre, Pa. Fireproof, 2 stories, 40x70 feet, slag roof, tile and composition roof (heating and electric and plumbing reserved), metal lath, tile and marble work, kalamein doors, waterproofing, steel stairs. Owners taking bids due May 31st.

**Cow Stable**, Dallas, Pa. Architect, E. H. Poggi, Miners' Bank Building, Wilkes-Barre, Pa. Owner, W. F. Newberry, care of architect. Hollow tile and stucco, 2 stories, 25x67½ feet, asbestos shingle roof, concrete floors, electric light, stable equipment, floor hardener. Architect taking revised bids due May 31st.

**Residence**, Bryn Mawr, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Marion Edwards Park, Bryn Mawr, Pa. Frame, 2½ stories. Architects taking bids.

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**High School (add.)**, Abington, Pa. **Glenside Weldon School (add.)**, Glenside, Pa. **Grade School (add.)**, North Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. **Grade School**, McKinley, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, Abington Township School Board, Charles M. Dell, secretary, Elkins Park, Pa. General construction. Owners taking bids due June 4th at 7 P. M. Plans may be obtained from architects' offices on or after May 21st. Bids on heating, plumbing, lighting and ventilating due June 25th at 7 P. M. Plans obtainable June 11th. (Standard time.)

## Pennsylvania Contracts Awarded

**Residence**, Haverford, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Mrs. W. D. W. Howell, care of architects. Stone, 2½ stories, 43x36 feet and 13x26 feet, shingle roof, oak and pine floors, metal weather strip, electric lighting, tile work. Contract awarded to John E. Kearney, 34 South Seventeenth street, Philadelphia.

**Preparatory School**, Malvern, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Augustinian Fathers, Villa Nova, Pa. Brick, cut stone, limestone, granite and steel, 3 stories, 112x44 feet, wing 40x20 feet, slag and slate roof, cement and pine floors, hollow tile, dampproofing, terra cotta, iron work, bond, hollow metal sash and doors, tile, marble and terrazzo work, metal lath (heating, electric work plumbing and elevators reserved). Contract awarded to Jacob Myers & Sons Co. Witherspoon Building.

**Memorial Building**, Milton, Pa. Architect, William H. Lee, 32 South Seventeenth street, Philadelphia. Owners, American Legion, Wallace W. Fernay Post No. 71. Brick, stone and hollow tile, 3 stories, 42x130 feet, built-up roof, cement and pine floors, dumb waiter, dampproofing, iron work, bond, rolled steel sash, tile and marble work, electric lighting, plumbing, modulated heating. Contract awarded to Billmyer & Arner, Milton, Pa.

**Stores and Apartments (20)**, Glenside, Pa., \$100,000. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Brody & Cherry, Glenside, Pa. Brick, 1 story,

16x58 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, hollow metal skylights, bond, metal bulks. Contract awarded to Albert Zellfelder, 1324 Walnut street.

**Stable**, Protectory, Pa. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owners, Philadelphia Catholic Protectory for Boys, on premises. Stone, hollow tile and stucco, 1 story, 139x45 feet and 90x36 feet, asbestos shingle roof, wood block floors, roof ventilators, iron work, bond, metal lath. Contract awarded to W. Edward Pierce, Juniper and Pine streets.

**Residence**, Coatesville, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, Benjamin Aronsohn, Coatesville, Pa. Stone and cut stone, 2 stories, 47x29 feet, wing 19x20 feet, slate roof, oak and pine floors, hot water heating, electric lighting, tile work, iron work. Contract awarded to W. J. Elliott, Coatesville, Pa.

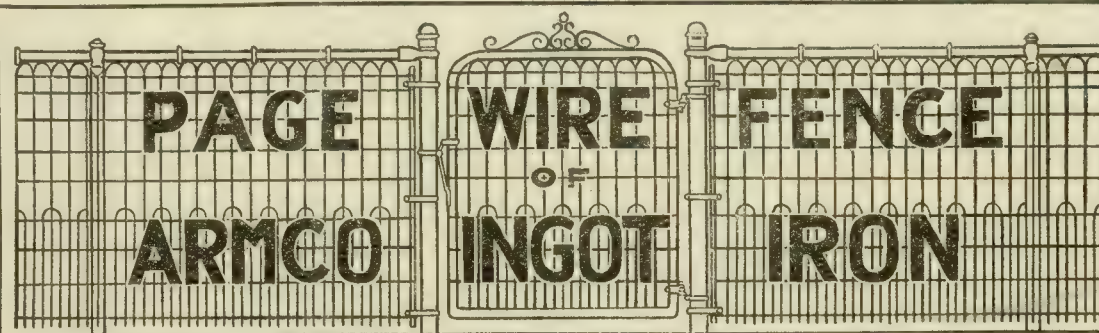
**Church, (completion)**, Lansdowne, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Philomena's Roman Catholic Church, Lansdowne, Pa. Brick, stone, castone and steel, slate roof, pine and cement floors, metal lath, bond, iron work (plumbing, heating, electric work, tile, marble and terrazzo reserved), size 128x56 feet. Contract awarded to A. B. MacGregor, 1628 Vine street.

**School and Convent**, Ridley Park, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Madeline's Roman Catholic Church, Ridley Park, Pa. Stone, brick, steel, cut stone and cement, 2 stories, 57x52 feet, slag roof, composition, concrete, maple and pine floors, electric lighting. Contract awarded to J. Mercadante, Chester, Pa.

**Weave Shed**, Chester, Pa. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Aberfoyle Mfg. Co., Chester, Pa. Brick and concrete, 1 story, 175x180 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to William Provost, Jr., Chester, Pa.

**Garage**, Haverford, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Horace E. Smith, 303 Chestnut street, Philadelphia. Stone and stucco, 2 stories, 33x29 feet, slate roof, cement and pine floors, hot water heating, electric lighting. Contract awarded to A. W. Hopeman & Sons, Ardmore, Pa.

**Building**, Lansdowne, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadel-



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phia. Owners, American Legion of Hone, Lansdowne, Pa. Contract awarded to Eugene Farrell, 94 North Lansdowne avenue, Lansdowne, Pa.

**Club House (add.)**, Harrisburg, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Colonial Club, D. A. Caley, secretary, Kunkel Building, Harrisburg, Pa. Shower room, lockers, roof garden. Contract awarded to C. J. Bushong, 1713 Boas street, Harrisburg, Pa.

**Store and Apartment**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, J. A. Miller, 56 North Queen street, Lancaster, Pa. Brick, 4 stories, 50x110 feet, slag roof, concrete floors, hot water heat, electric light. Contract awarded to W. B. Eisenberger, Philadelphia Pike, Lancaster, Pa.

**Apartment, Lodge Rooms, Stores and Moving Picture Theatre**, Elizabethtown, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Loyal Order of Moose, David Kreiber, Elizabethtown, Pa. Brick, steel, 3 stories, 192x76 feet, slag roof, hardwood floors, steam heat, electric light, tile, marble and terrazzo work, bond. Contract awarded to Hoffer Brothers, Elizabethtown, Pa.

**Church**, Lemoyne, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, United Evangelical Church, Rev. Crumbling, Lemoyne, Pa. Stone, 1 story and basement, 54x80 feet, composition roof, pine floors, steam heat, electric light, tile work. Contract awarded to R. W. Sawyer, Lemoyne, Pa. (Note contractor.)

**Church (alts.)**, 136 Clymer street, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, St. John's Reformed Church, Rev. T. H. Leinbach, Reading, Pa. General interior alterations, plumbing, steam heating, leaded glass, ornamental plaster. Contract awarded to Charles Schlegel, Reading, Pa.

**Residence**, Kingston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, John Carson, care of architect. Frame, 2 stories, 26x32 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to William Whitesell, Kingston, Pa.

**Residence**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, W. H. Duhling, care of architects. Frame, 2½ stories, shingle roof, hardwood floors, electric light, tile work. Contract awarded to H. Harlos, Kingston, Pa.

**Residence**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, George Turrell, care of architects. Brick, 2½ stories, 42x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre.

**Bank and Office Building (add.)**, Third and Market streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Mechanics' Trust Co., J. C. Motter, on premises. Terra cotta, fireproof, 9 stories, 55x36 feet, composition floors, tile and concrete floors (heating, lighting and plumbing separate). Contract awarded to J. W. Pomraning, Kunkel Building, Harrisburg, Pa.

**Church**, Thirteenth and Derry streets, Harrisburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Christ Lutheran Church, care of E. A. Hefelenger, East End Trust Co., Harrisburg, Pa. Stone, 1 story and basement, 105x55 feet, slate roof, hardwood floors, vapor heat, electric light. Contract awarded to C. W. Strayer, Market Square, Harrisburg, Pa.

**School (add.)**, Chester street, Kingston, Pa., \$74,482. Architects, Sturdevant & Foster,

Coal Exchange Building, Wilkes-Barre. Owners, School Board of Kingston, J. Miles, secretary, Kingston. Brick, 2 stories, 85x61 feet, slag roof, hardwood floors (heating, electric work and plumbing reserved), roof ventilators. Contract awarded to William B. Richards, Simon Long Building, Wilkes-Barre, Pa.

**School**, Pringle street, Kingston, Pa. Architects, Mack & Sahn, Simon Long Building, Wilkes-Barre, Pa. Owners, Kingston School Board, Mr. Evans, secretary, Kingston, Pa. Brick, fireproof, 2 stories, 8 rooms (heating, plumbing and electric work reserved), slag roof, hardwood floors, hollow tile, roof ventilators. Contract awarded to W. B. Richards, Simon Long Building, Wilkes-Barre, Pa.

**Stores, Apartment and Garage**, Nanticoke, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Joseph Bendoek, Nanticoke, Pa. Frame, 3 stories, 58x150 feet, composition roof, pine and concrete floors, steam heat, electric light, metal lath, waterproofing, dampproofing, metal ceilings. Contract awarded to F. Collins, Nanticoke, Pa.

**School**, Conklin, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owners, Conklin School District, No. 3, Howard Thurber, Conklin, Pa. Brick, 1 story, 24x65 feet, composition roof, pine floors (heating, electric work and plumbing reserved), metal lath, roof ventilators, hollow tile, rolled steel skylights. Contract awarded to John Mitchell, Binghamton, N. Y.

**School**, Nanticoke, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Holy Trinity Roman Catholic Church, care of architect. Brick, steel, fireproof, 3 stories, 59x133 feet, slag roof, hardwood floors (heating, electric work and plumbing reserved), tile and marble work, roof ventilators, waterproofing and dampproofing, iron stairs. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

**Residence (alts. and add.)**, Dalton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, P. J. Casey, Hotel Casey, Scranton, Pa. Brick and frame, 2 stories, slag roof, hardwood floors, interior alterations. Contract awarded to Boland Brothers, 427 Spruce street, Scranton, Pa.

**Store and Apartment (alts. and add.)**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, I. Isaacs, 501 South Main street, Wilkes-Barre, Pa. Brick, 2 stories, 24x50 feet, slag roof, pine floors, steam heat, electric light, plate glass. Contract awarded to M. L. Roth & Son, 127 South Welles street, Wilkes-Barre, Pa.

**Residence**, Wilkes-Barre, Pa. Architect, Herman Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, George Schebe, Wilkes-Barre, Pa. Hollow tile and stucco, 2 stories, 25x42 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Charles Nordstrom, 293 New Hancock street, Wilkes-Barre, Pa.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa.

Mercer County, Route 206, West Salem and Green Townships and Jamestown Borough, \$248,564. Contract awarded to Samuel Gamble Co., Carnegie, Pa.

Northampton County, A-2105, Hellertown Borough and Lower Saucon Township. Contract awarded to William C. Evans, Ambler, Pa., \$253,614.47.

Northampton County, A-2149, Stockertown Borough and Palmer Township. Contract awarded to William C. Evans, Ambler, Pa., \$75,395.30.

Butler County, A-2262, Butler and Summit Townships, \$263,154.62. Contract awarded to Garvey-Weyenberg Const. Co., Appleton, Wis.

Butler County, R-233, Worth and Slippery

Rock Townships, \$195,726.08. Contract awarded to Garvey-Weyenberg Const. Co., Appleton, Wis.

York County, R-332, Spring Garden Township, \$45,577.10. Contract awarded to Warren Brothers Co., 142 Berkeley street, Boston, Mass.

## New Jersey Construction News

**Stanley Theatre**, Sixth and Market streets, Camden, N. J., \$1,000,000. Architects, Hoffman Henon Co., Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1218 Market street, Philadelphia. Brick, stone, steel, concrete, limestone and terra cotta, 160x110 feet, slag roof, steam heating, electric lighting, tile and marble work, roof ventilators, fire doors, cement work. Plans in progress.

**Garage (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Edward Cook, care of architect. Brick, 1 story, 145x90 feet, slate roof, concrete floors, rolled steel sash, electric light, floor hardener. Plans in progress.

**Apartment (alts. and add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Dr. William J. Hall, 438 East State street, Trenton, N. J. Brick, 3 stories, 34x60 feet, slag roof, hardwood floors, electric light, tile work. Architect ready for bids.

**Infirmary**, Princeton, N. J. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Brick, stone, steel and terra cotta. Plans about completed. Architects will be ready for bids in about two weeks.

**Residence and Garage**, Ventnor, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Harry Weiss, care of architect. Hollow tile, stucco and brick, 2½ stories, 36x65 feet, and 1 story, 10x20 feet, Spanish tile roof, hardwood floors, modulated system of heating, electric light, tile and marble work, cement work. Architect will be ready for bids in one week.

**Elementary School**, Phillipsburg, N. J. Architect, E. H. Wenzelberger, 3 Center Square, Easton, Pa. Owners, Phillipsburg School Board, Alfred Case, secretary, Phillipsburg, N. J. Brick, 1 story, 119x104 feet, slate roof, pine floors, hollow tile, metal lath (heating, plumbing and electric work reserved), tile and terrazzo work, rolled steel sash. Owners ready for bids due June 1st.

**Shop Building (add.)**, School of Industrial Arts, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, care of Mr. Fell, City Hall, Trenton, N. J. Brick, reinforced concrete, 2 stories, 60x125 feet, slag roof, concrete and wood block floors, steam heat, electric light. Owner taking bids due May 25th.

## New Jersey Contracts Awarded

**Residence**, Tomlyn, N. J. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Thomas E. French, Tomlyn, N. J. Stone, 2½ stories, 28x50 feet, slate roof, oak and pine floors, hot water heat, electric lighting, iron work. Contract awarded to Milton W. Young, 2837 North Sixty-third street, Philadelphia.

**Residence**, Morris Heights, N. J. Architects, William Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, Joseph Richardson, Jr., care of architect. Concrete and



tile, 2½ stories, 28x50 feet, copper and slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to A. T. Robertshaw, Morris Heights, N. J.

**School (alts. and add.),** Bordentown, N. J. Architects, P. L. Fowler & Co., Fitzcharles Building, Trenton, N. J. Owners, Bordentown School Board, Mr. Buchanan, secretary, Bordentown, N. J. Brick, 2 stories, 10x25 feet, tin roof, pine floors (heating, electric and plumbing reserved). Contract awarded to C. D. Anderson, Crosswick, N. J.

**School No. 2 (alts. and add.),** Bordentown, N. J. Architects, P. L. Fowler & Co., Fitzcharles Building, Trenton, N. J. Owners, Bordentown School Board, Mr. Buchanan, secretary, Bordentown. Frame, 1 story, 35x40 feet, tin roof, pine floors (heating, plumbing and electric work reserved). Contract awarded to C. D. Anderson, Crosswick, N. J.

## Miscellaneous

### Construction News

**Residence,** Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Harry Giovannozzi, Eleventh and Lincoln streets, Wilmington, Del. Brick, 2 stories, 25x30 feet, composition roof, hardwood floors, hot water heating, electric lighting, tile work. Owner will build.

**Building,** Carlisle, Pa. Architects and engineers, Lockwood, Greene & Co., 101 Park avenue, New York. Owners, C. H. Masland & Sons, Inc., Carlisle, Pa. Brick, 3 stories, 100x250 feet. Plans in progress. Will be ready for bids in about two weeks.

**Residence (alts. and add.),** Binghamton, N. Y. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Paul Yanos, Binghamton, N. Y. Frame, 2 stories, 22x34 feet, shingle roof, pine floors, steam heat, electric light. Plans in progress.

**Residence,** Massillon, Ohio. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owners, C. W. Stuart Realty Co., Massillon, Ohio. Hollow tile and stucco, 2½ stories, 45x28 feet, slate roof, pine and hardwood floors, hot water heat, electric lighting, tile work. Plans in progress. Owner will build.

**Residence,** Annapolis, Md. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Meredith Lumber Co., Annapolis, Md. Hollow tile and stucco, 2½ stories, 43x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**School,** Sykesville, Md. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owners, Board of Education, of Carroll County, Md. S. Unger, secretary, Westminster, Md. Brick, 2 stories, 10 rooms, slag roof, pine floors, hollow tile. Owners ready for bids.

**Residence (add.),** Binghamton, N. Y. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, Dr. Bailey, Binghamton, N. Y. Brick, tile, 2 stories, 14x28 feet slag roof, hardwood floors, heating extension, electric light. Contract awarded to S. G. Price, Johnston, N. Y.

## Proposals

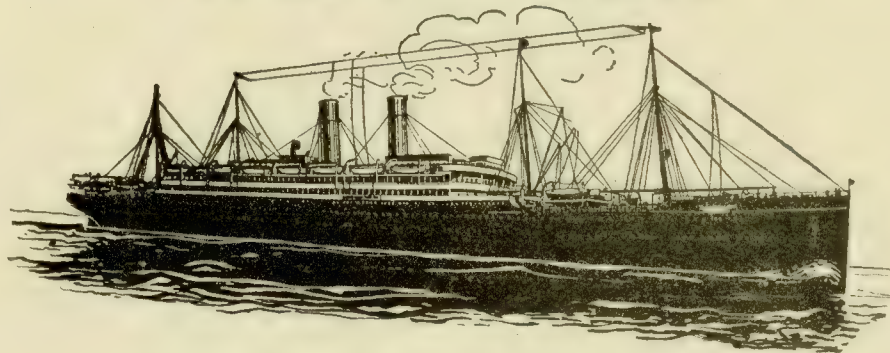
TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 18, 1923. Sealed Proposals will be opened in this office at 3 P. M., June 18, 1923, for remodeling and enlarging the United States Post Office at Geneva, N. Y. Drawings and specifications may be obtained from the Custodian at Geneva, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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## NEW YORK BUILDERS FACE COST FACTS

*Contractors, Architects, Bankers and Real Estate Men Hold Conference On Present Situation*

Alarmed by the threatened crisis in the building industry, more than one hundred of the leading architects, contractors, builders, real estate dealers and bankers of New York met in the Engineering Societies' building on Monday, April 30, for the purpose of devising some plan that would mitigate the acuteness of the situation.

The meeting was called to order by W. S. Faddis, president of the Building Trades Employers' Association, and of Cauldwell-Wingate Company, who turned the meeting over to Harold M. Shreve Carrere and Hastings, architects, as chairman.

Mr. Shreve stated that his firm was discouraging new building ventures and that no builder could give to owners a satisfactory idea of prices or the time required for completing a project. He called on Professor Louis H. Hainey, director of the Bureau of Business Research of New York University, who said that a buyers' strike with regard to residences is already upon us and mentioned instances of construction companies which had discontinued operations. He said that the people are beginning to wait just as they did in 1920.

R. F. Brown of the J. W. Bishop Company, told of a large operation started in February, paying bricklayers the regular scale of \$10 a day. On March 30 a dollar bonus had to be added. On April 23, \$12 a day was demanded; on the same day, \$13; and half an hour later, \$14. Common labor made corresponding demands.

F. B. Rogers of Fred T. Ley Company, Inc., told of a conflict between bricklayers and the piping trades over the cutting of arches in concrete, after which the bricklayer struck for \$12 a day, and, a few days later, \$14, causing an incalculable loss not only in money, but also in the progress of the building.

### *Early Contracts of No Avail*

Wm. J. Taylor of the Wm. J. Taylor Company reported a demand for \$14 which he had to meet, otherwise the bricklayers would have gone to Cleveland where \$14 had been offered them, with free board and transportation.

Robert C. Whiting of the George A. Fuller Company reported wage demands made on his company and said the "snow-balling" process was well under way.

C. G. Norman, chairman of the Board of Governors of the Building Trades Employers' Association, said that in 1914 building operations in the United States amounted to, roughly \$1,250,000,000, and that the contemplated building for 1923 was \$5,000,000,000 with no appreciable increase in the number of bricklayers.

Mr. Norman added that the efficiency of labor under higher wages showed a marked decline and that the union men could not be held in check by their own leaders.

D. Everett Waid, architect, considered that the situation was mainly due to the law of supply and demand and that so far as the demand was real and not artificial, there could be no other remedy but to stop operations. He felt that the workers could hardly be blamed for following the example of business men by raising prices when the demand was high.

W. J. Barney, of the Barney-Ahlers Company, brought up the question of the constantly increasing difficulty in obtaining delivery of materials. He said that a contract for steel made last January at prices used in the estimate was of little avail, as delivery cannot be secured without premium and heavy expense for tracing cars and expediting deliveries. Sand and gravel dealers contracted in December to deliver material at \$2.50, but of what value is that contract when they are deluged with orders at \$3.50 and even \$4.00?

### *Declares Prompt Relief Necessary*

"The manufacturer of materials, like the laborer, is human, and will find a way to make deliveries to the last man who pays him best, so that your costs are skying not only from the more dramatic demands of labor but also from the higher prices of materials and deliveries. Where you think you are protected by a lump sum contract against these rising costs you will find your contractors, however strong financially, compelled to make the safer choice of shutting down their work and arbitrating with you as to responsibilities for delays, rather than assuming the ever mounting costs. The bricklayer and his demands are but the first of a long procession."

### *Joint Action Is Urged*

Mr. Barney compared the business of the country to a long train pulled by the locomotive of the building industry. If relief were not promptly given the building industry, he declared, the train would stop and possibly slip down the grade to the depression from which it had climbed. There was no desire to stop building construction, he said, but joint action of all interests affected was necessary to solve the problem in such a way that would do the least harm to the public, the banker, the owner, the contractor and the laborer.

Otto M. Eidlitz declared that with the unprecedented amount of work to be done and not enough labor available, the builder was not in control of the situation.

Truman S. Morgan, president of F. W. Dodge Corporation, thought that while

the situation was distressing and perhaps somewhat alarming, he felt that there was no real ground for panic. He said that before going to the meeting he had hastily assembled a few figures which showed that 'contracts awarded in territory covered by the Dodge service amounted to about the same in April as in March, but \$14,000,000 of the April contracts are due to an exceptional increase in the Chicago district. If we leave that out of consideration, we are running below last month.

### *A Notable Decline in New York*

"In greater New York I find \$50,000,000 against \$57,000,000 in March showing a 14 per cent. decline which is particularly marked when contrasted with last year, when the March figures were \$61,000,000 and the April figures \$78,000,000 nearly 20 per cent larger than those for the same months this year.

"In May last year Greater New York contracts totaled \$51,000,000, a reduction of 35 per cent. from April, and if this May follows a similar course, Greater New York figures will be found in the \$30,000,000's.

"While, therefore, no stone should be left unturned to improve present adverse conditions and to guard against their recurrence, it may prove that we have about reached the peak of our present troubles."

C. H. Kelsey of the Title Guaranty and Trust Company, said: "Limiting the demand for labor by cessation of building will not permanently solve the problem. We must seek to increase the supply of adequately trained labor. Apprentice schools should be established. The law of supply and demand is inexorable. I do not feel that this problem will be solved until the open shop principle has been established."

Percy Strauss of R. H. Macey and Company said: "Such remedies as the open shop and changes in the immigration laws are 'long haul' remedies. The need now is an immediate plan and I feel that study looking toward this should be entered upon at once."

R. D. Kauffman of S. W. Strauss and Company said: "The loaning institutions should take serious consideration of the existing situation. The facts should be given the utmost publicity, but this publicity should emanate from entirely disinterested parties."

### *Name Committee to Formulate Policy*

The outcome of the meeting was the appointment of a committee of fifteen to formulate a policy. The committee will consist of three members from each of the following: builders, bankers, owners, architects, and general industry.

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## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond St., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Baker Warehouse. ....Venango and G Sts., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MORTGAGE FUNDS.

Taylor, G. Herbert. ....Pennsylvania Bldg., Phila.

## OIL HEATERS.

Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.

Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES

Borden Stove Co. ....1026 Arch St., Phila.

Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Baker Warehouse. ....Venango and G Sts., Phila.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.

Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEETROCK (Wall Board)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., & Co. ....10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.

## SLATE

Emack, The John D. Co. ....Otis Bldg., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

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## STAIRS (Sheet Steel).

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## STEAM SHOVEL CONTRACTORS.

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## STEEL SASH.

McFarland-Meade Co., 70th and Kingsessing Ave.

## STONE.

John D'Lauro. ....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair. ....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denekla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

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Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## VENTILATORS

Iona Ventilator Co., Inc. ....2821 W. Dauphin St., Phila.

## VENTILATING SYSTEMS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## WALL BOARD, COMPO BOARD

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## WALL BOARD (Sheetrock)

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Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## WATER PAINT.

Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phila.

## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## WHITEWASHING.

Southern, Wm. B.,  
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## WINDOW GUARDS (Wire).

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Cyclone Fence Co. ....18 S. 7th St., Phila.

## WIRE PARTITIONS.

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Cyclone Fence Co. ....18 S. 7th St., Phila.

## WIRE WORK.

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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 22

May 30, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
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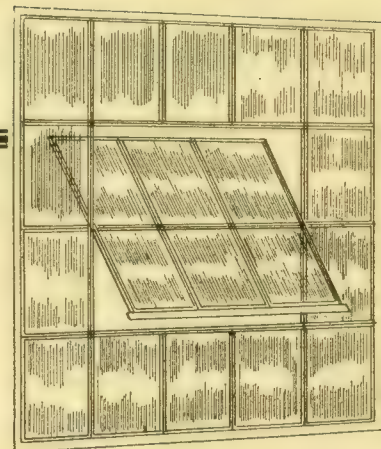
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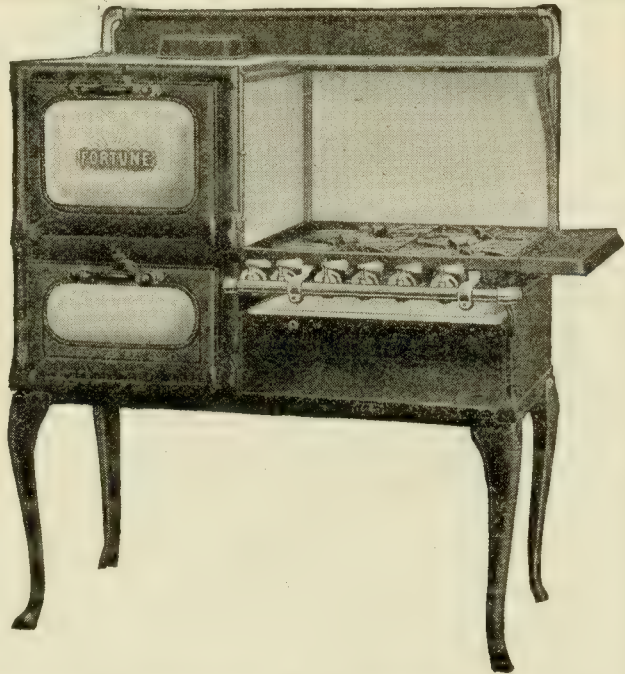
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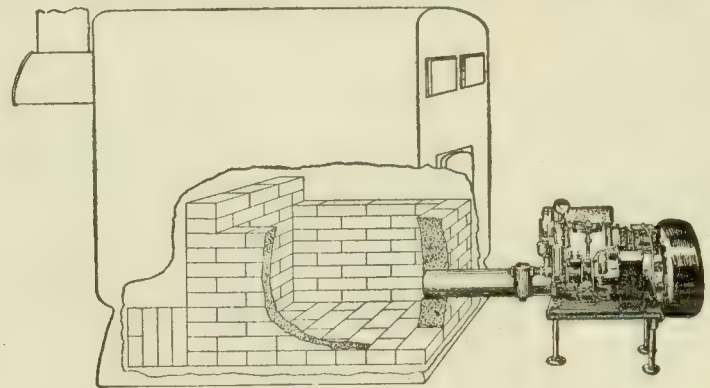
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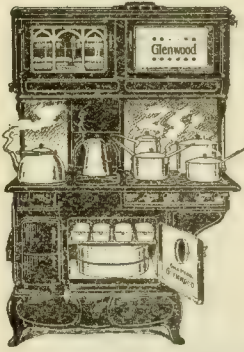
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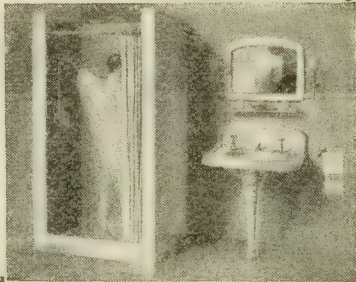
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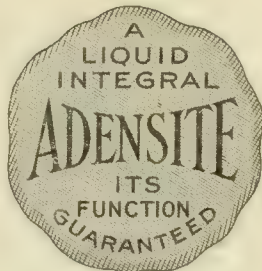
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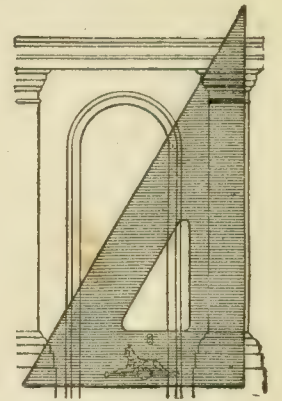


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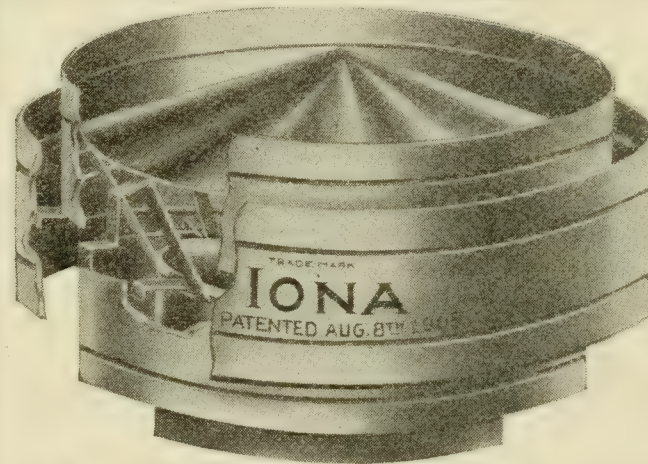
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 22

PHILADELPHIA  
May 30, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
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To all points in Canada..... 5.50 a year  
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Entered at the Post Office at Philadelphia as  
Second Class Matter

## Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Store and Office Building**, near Broad and Louden streets, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owners, Frederick E. and Maurice Felt, 215 South Broad street, Philadelphia. Brick, limestone, 2 stories, 20x80 feet, hot water heat, electric light, slag roof, pine floors, tile and marble work, metal ceilings, flush bulks. Plans completed.

**Alterations**, 217 South Broad street, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Leo Conway, on premises. Interior alterations. Owner taking bids.

**Building (alts. and add.)**, 1513 Race street, Philadelphia. Architect, Amos W. Barnes, 1704 Ludlow street, Philadelphia. Owners, J. J. Griffin Co., on premises. Tower foundation, pump foundation, fireproof enclosure of stairs, 5 stories. Architect taking bids due June 1st.

**Residences (3)**, West side Roanoke street, South of Springfield avenue, \$18,000 each. Architect, private plans. Owner, Judson M. Zane, 1434 Land Title Building, Philadelphia. Stone, 3 stories, 21½x44½ feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Stores and Apartments (4), Residences (60)**, Sixty-sixth and Stenton avenue. Architect, L. W. Levin, Victory Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 18x56 feet, 2 stories, 16x48 feet, slag and tile roof, hardwood floors, metal ceilings, structural steel, copper bars, marble and tile work, electric lighting, hot water heating, metal lath, garages in basement, cement. Plans in progress.

**Parochial School**, 815 Montrose st., Philadelphia. Architect, J. E. Sindoni, 1905 South

Sixteenth street, Philadelphia. Owners, Our Lady of Good Counsel, Rev. Aurelio Marini, O. S. A., 816 Christian street, Philadelphia. General alterations. Plans in progress. Too early for details.

**Apartment Hotel (alt.)**, Northeast Corner Nineteenth and Walnut streets, Philadelphia. Architects Hewitt & Ash, 1827 Arch street, Philadelphia. Owners, The Wellington, on premises. General alterations. Plans in progress.

**Residence (alts.)**, 2107 Delancey street, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, R. C. Allen, 1415 Locust street, Philadelphia. Indiana limestone front, slag roof, oak floors, painting, glazing, carpentry, mill work, tile work, iron stairs, iron work. Revised plans in progress.

**Building (alts. and add.)**, 329 South street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. Caplan, on premises. Brick, 3 stories, hot water heat, electric lighting, metal lath, tile work, iron work, roof repairs, oak and pine floors. Revised plans in progress.

**Church (alts. and add.) of Sunday School and Parsonage**, Seventieth and Woodland avenue, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Siloam Methodist Episcopal Church, on premises. Stone, cut stone and steel, 2 stories, irregular slate roof, pine floors, controlled heat, electric light, iron work. Revised plans in progress.

**Main Building (add.)**, Forty-first Ward, Torresdale, Philadelphia. City architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Corrections, 592

City Hall, Philadelphia. Brick, stucco, blue-stone, limestone and steel, 1 story and basement, 29x33 feet, slag roof, pine, cement and composition floors, roof ventilators, bond, marble work, metal lath (heating, electric work and plumbing separate bids). Revised plans in progress.

**Church, Sunday School and Parsonage**, Oxford Pike, Dyer street to Akron, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Frankford Avenue Methodist Episcopal Church, Rev. G. W. Sheetz, 1618 Foulkrod street, Philadelphia. Stone, 1, 2, 3 stories. Sketches in progress. Too early for details.

**Residences (6)**, Germantown, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Purdy Rittenhouse, care of architect. Stone, brick, 2½ stories, 18x40 feet, hot water heat, electric light, slate and slag roof, hardwood and pine floors, garages in basement. Plans completed.

**Store and Dwelling**, 818 North Second street, Philadelphia. Architect, private plans. Owner, Meyer Weiner, Virginia Hotel, Virginia avenue and Boardwalk, Atlantic City, N. J. Brick, 2 stories, 20x90 feet, tile work, hollow metal skylights, metal bulks, composition and hardwood floors, plastering, plate and crismatic glass, structural steel. General alterations. Plans completed. Owner ready for general bids.

**Bank**, Northwest Corner Eighth and Fitzwater streets, Philadelphia, Pa. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, V. D'Ambrosio, on premises. Limestone, granite and brick, 1 story, 39x52 feet, slag roof, composition and maple floors, gas and hot water heat, electric, tile, marble and terrazzo work, plate glass,

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ornamental iron work. Architect taking sub-bids due as soon as possible.

**Residences (60)**, Montgomery and Fifty-fourth street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, J. Korman, on premises. Brick, 2 stories, 16x42 feet, hot water heat, electric work, hardwood floors, slag and tile roof, tile work, cement and metal lath. Owner taking sub-bids.

**Residence (alts. and add.)**, 129 South Eighteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations and additions. Plans in progress.

**Apartment House (alts.)**, 1603 Poplar street, Philadelphia. Architect, Louis Calentine Schorr, 1036 Drexel Building, Philadelphia. Owner, Harry Goldberg, 305 Cherry street, Philadelphia. Brick, steel and cut stone, slag roof, hot water heating, electric lighting, plumbing, tile and marble work, plastering, carpentry, mill work, hardware, iron work. Owner will build.

**Apartment Building**, Southeast Corner Twenty-first and Race streets, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Michael O'Brien, care of architect. Brick, 3 stories, 22x130 feet, hot water heat, electric light, slag roof, oak and yellow pine floors, tile work, ornamental iron work. Drawing plans. Architect will be ready for bids June 2nd.

**Store and Office Building**, 4522 Paul street, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Joseph E. Evans, 1628 Sellers street, Frankford, Philadelphia. Brick, 2 stories, 23x125 feet, slag roof, cemented pine floors, steam heat, electric work, metal bulks, plate glass. Owner ready for general bids.

**Residence**, Bridesburg, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Charles Drinkwater, care of architect. Brick, 3 stories, 16x40 feet, hot water heat, electric light, slag roof, pine floors. Plans about completed. Owner will take sub-bids.

**Store (alts. and add.) and Garage**, 5709 Market street, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, M. Katz, care of architect. Brick, 1 story, 12x16 feet, garage, 1 story, 16x30 feet, slag roof, cemented pine floors, structural steel, carpentry, electric work, heating extension. Owner ready for bids in a few days.

**Store Building (alts. and add.)**, 1313 Vine street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Salvatore Mignogni, 205 North Twelfth street, Philadelphia. Brick, 3 stories, 59x14 feet, steam heat, electric lighting, tile, marble work, metal lath, galvanized iron skylights, bond, slag roof, yellow pine floors, metal ceilings. Architect taking bids due June 1st.

**Apartment House**, York road, below Bristol street, Philadelphia. Architect, Andrew C. Borzner, 1717 Walnut street, Philadelphia. Owner, Lawrence J. Klauder, Crozer Building, Philadelphia. Brick, cut stone, concrete and steel, 3 stories, 110x56 feet, hot water heat, electric lighting, metal lath, tile work, bond, ornamental iron work, slag roof, cork-tile, oak and yellow pine floors. Architect taking bids due June 5th at noon.

**Office Building**, Fourth and Walnut streets, Philadelphia. Architect, Frank Watson, 1211 Walnut street, Philadelphia. Owners, General Accident, Fire and Life Assurance Corporation, George E. Edkins and W. H. Thompson, Fourth and Walnut streets, Philadelphia. Concrete, stone, brick, cut stone, precast stone, steel, 10 stories and basement, 98x73 feet, steam heat, electric light, metal lath, marble work, rolled steel sash, copper skylights, hollow metal doors, bond, iron stairs, ornamental iron work, Barrett specification roof, cement

floors, hollow tile, elevators, steel stack. Architect taking bids due June 11th.

**Residence**, Chestnut Hill, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Arthur H. Lee, care of architect. Stone, 2½ stories, 67x25 feet, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, slate roof, oak and yellow pine floors. Architect taking bids due June 5th.

**Garage**, 215 North Spangler street, Philadelphia. Architect, John J. Carroll, 34 South Seventeenth street, Philadelphia. Owner, Ralph Fisher, care of architect. Brick, slow burning, 2 stories, 70x90 feet, slag roof, cement and plank floors, hot water heating or steam heating, electric lighting. Architect taking bids due as soon as possible.

**Residence (alts. and add.)**, 3235 North Seventeenth street, Philadelphia. Architect, W. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Reuben Rosenthal, 1424 West York street, Philadelphia. Interior alterations, brick add., 1 story, 14x18 feet, slag roof, hardwood floors, stair work, tile work, heating and electric alterations, plumbing. Architect and owner ready for bids due June 1st.

**Miscellaneous Work**, Department of Wharves, Docks and Ferries, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George S. Sproule, Director, Pier 4, South Wharves, foot Chestnut street. Schedule A: Construction of wharf drops, Vine Street Pier, No. 19 North Wharves. Construction with appurtenant work at apron track, Porter Street Pier, No. 84 South Delaware River, south side. Owners taking bids due May 31st at noon.

**Garage (add.)**, 875 North Forty-fifth street, Philadelphia. Architects, Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia. Owner, Thomas Aiken, on premises. Brick and steel, 1 story, 15x105 feet, slag roof, cement floors, heating and lighting extensions, rolled steel sash and skylights. Bids due May 31st.

**Building**, Forty-first and Walnut streets, Philadelphia. Architect, Leroy R. Rothschild, 215 South Broad street, Philadelphia. Owner, Maurice Noble, care of architect. Brick and cut stone, 1 story, 70x115 feet, steam heat, slag roof, rolled steel sash, rolled steel skylights, bond, cold water painting, ornamental iron work. Architect taking bids due May 31st.

**Store (alts.)**, 1535 Pine street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Antonio Onorato, on premises. Lowering first floor, interior alterations, flush bulks, plate glass, new partitions, oak floors, tile work. Architect taking bids due as soon as possible.

**Residence**, 3014 Midvale avenue, Philadelphia. Architect, private plans. Owner, C. L. Cushmore, 4640 Greene street, Philadelphia. Stone, 2½ stories, 28x42 feet, 8x14 feet, slate roof, oak and yellow pine floors (heating, plumbing and electric reserved). Owner taking bids due as soon as possible.

**Subway Construction**, Contract No. 207, Philadelphia. Architect, private plans. Owners, Department of City Transit, William F. Twining, Director, 1211 Chestnut street, Philadelphia. 1,529 lineal feet of two-track subway in arch between Eighth street and Thirteenth street. Deposit, \$20.00. Refund, \$20.00. Bond. Owners taking bids due June 26th at noon.

**Club House**, Eighth and Tabor road, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Philadelphia Rifle Club, on premises. Buff brick, 2 stories and basement, 80x213 feet, red tile roof, steam vapor heating, electric lighting, tile and marble work, plumbing, hardwood floors, dumb waiter. Architect taking bids due May 31st.

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**Recreation Building**, Cohocksink, Ann, Cedar and Cambria streets. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation. Reinforced concrete, brick and cut stone, slag roof, mastic floors, hollow tile, metal lath, dampproofing, rolled steel doors, bond. Owners taking bids due June 4th at noon.

**School Building**, Torresdale, Wakeling, Dittman and Margaret streets. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. General construction. (Heating, plumbing and electric reserved). Owners taking bids due June 7th at noon (daylight saving).

**Schools (alts.)**, various locations, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street. Heating, electric lighting, painting, force draft equipment, cement paving, flag poles and laboratory equipment. Owners taking bids due June 7th at noon (daylight saving).

**Supplies**, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Lumber, machine tools, wood-working benches, steel lockers, gas ranges, etc. Owners taking bids due June 7th at noon.

**Residences (9)**, Germantown avenue and Allen Lane, \$78,500. Architect, private plans. Owners, Zane & McCandless, 4710 York Road, Philadelphia. Brick, 2 stories, 18x31 feet, 13x11 feet and 18x42 feet, slag roof, hardwood floors, electric light, hot water heat, tile work. Owners will build.

**Residences (33)**, Seventh street, Ruscomb and Lindley avenue, \$185,500. Architect, private plans. Owner, M. Cylinder, 5734 Chestnut street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet and 15x40 feet, slag roof, hardwood and pine floors, electric light, hot water heat, tile work. Owner will build.

**Residences and Stores (5)**, Torresdale and Orthodox street, Philadelphia, \$36,500. Architect, private plans. Owners, Belinsky Brothers, 2630 South Ninth street, Philadelphia. Brick, 2 stories, 16x55 feet, 15x55 feet, 15x45 feet, 12x10 feet and 16x30 feet, 13x10 feet, hot water heat, electric light. Owners will build.

**Residence**, West side Fifty-second street, South of Woodbine avenue, \$10,000. Architect, private plans. Owner, Abraham Sharp, 5237 Baltimore avenue, Philadelphia. Brick, 3 stories, 38x61 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2)**, East side Gilham street, North of Hasbrook, \$8,000. Architect, private plans. Owner, William Easterbrook, 146 North Fourth street, Philadelphia. Brick, 3

stories, 18x36 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Apartment House (alts. and add.)**, East side Thirty-fourth, South of Haverford avenue, Philadelphia, \$10,000. Architect, private plans. Owner, Alex. P. Luckner, 5136 Parkside avenue, Philadelphia. Brick, 3 stories, 54x19 feet, general alterations, electric work, heating extension. Owner will build.

**Residences (3)**, South side Kingsley street, West of Lauriston avenue, Philadelphia, \$6,000 each. Architect, private plans. Owners, Manayunk Coal & Lime Co., Main and Umbria streets, Philadelphia. Brick, 2 stories, 20x33 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

**Residence**, North side Walnut Lane, East of Ridge avenue, \$20,000. Owner, Joseph Missimer, 222 Jamestown avenue, Philadelphia. Stone, 3 stories, 55x32 feet, and 1 story, 16x14 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Dwellings (29)**, Seventeenth street, Sixty-eighth avenue and Bouvier street, Philadelphia, \$126,500. Architect, private plans. Owner, Frank Keyser, 1517 South Sixth street, Philadelphia. Slate roof, hot water heat, brick, electric light, oak and yellow pine floors, tile work. Owner will build.

**Apartment (alts.)**, 111 South Twenty-first street, Philadelphia, \$10,000. Architect, private plans. Owner, William H. Good, Land Title Building, Philadelphia. General alterations, carpentry, mill work, electric work, painting, glazing. Owner will build.

**Dwelling and Store**, Southeast Corner Seventh and Rockland streets, \$10,000. Architect, private plans. Owners, Feinstone & Epstein, 1018 East Tioga street, Philadelphia. Brick, 2 stories, 19x74 feet 8 inches, slag roof, hot water heat, oak and yellow pine floors, tile work, electric light. Owner will build.

**Manufacturing Building (alts.)**, Northeast Corner Fifth street and Montgomery avenue, Philadelphia, \$7,500. Architect, J. Oliver Potts, care of owners. Owners, John B. Stetson Company, on premises. General alterations, carpentry, mill work, painting, concrete work. Owners will build.

**Residences (16)**, South side Magee street, East of Jackson, \$5,000 each. Architect, private plans. Owner, H. Roy Whitaker, 6949 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hardwood and pine floors, pipeless heaters, electric lighting. Owner will build.

**Residence**, Southeast Corner Friendship and Oakley streets, Philadelphia, \$4,500. Archi-

tect, private plans. Owner, Thomas E. Address, 4828 Hutchinson street, Philadelphia. Frame, 2 stories, 30x46 feet, hardwood and pine floors, electric lighting, hot water heating. Owner will build.

**Residences (20)**, East side Magnolia, West Washington Lane, \$6,000 each. Architect, private plans. Owner, Robert Killough, Wayne and Duval street, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, oak and yellow pine floors, tile work and electric work. Owner will build.

**Residences (8)**, 1310-24 Levick street, Philadelphia, \$4,500 each. Architect, private plans. Owner, William H. Fischer, Southwest Corner Montour and Levick street. Brick and frame, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2)**, West side Glenlock street, South of Unruh street, \$4,000. Architect, private plans. Owner, William Hartman, 4343 Worth street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light. Owner will build.

**Grading and Paving**, Philadelphia. Lowest bidders on bids opened May 18th. Grading Stokley street, from Westmoreland to Hunting Park, R. B. Wenner, 3106 Midvale avenue, and Municipal Paving Co., \$20,620.89 (tie bid). Paving Eastburn avenue, from Wister street to Gerry street, \$5,537; Olney avenue, from Broad to Fifth street, \$56,997.20; Ruscomb street, from Seventeenth to Eighteenth street, \$5,638; Tioga street, from Tulip street to Aramingo avenue, \$4,421.70; York Road, from Loudon street to Duncannon street, \$46,325.52; Sixty-seventh avenue, from Sixteenth street to Duncannon street, \$46,325.52; Sixty-seventh avenue, from Sixteenth street to Eighteenth street, \$12,673. Barber Asphalt Paving Co., Land Title Building, Philadelphia.

## Proposals

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., May 25, 1923.—Sealed Proposals will be opened in this office at 2 P. M., June 22, 1923, for Remodeling Post Office Screen, and Refinishing woodwork in Lobby, of the U. S. Court House and Post Office, Utica, N. Y. Drawings and specifications may be obtained in the discretion of the Supervising Architect at this office, or of the Custodian of this building. Jas. A. Wetmore, Acting Supervising Architect.

Frank E. Wallace, contractor and builder, formerly of 1220 Chancellor St., Philadelphia, has announced the removal of his offices and shop to 337 S. Camac St., Philadelphia.

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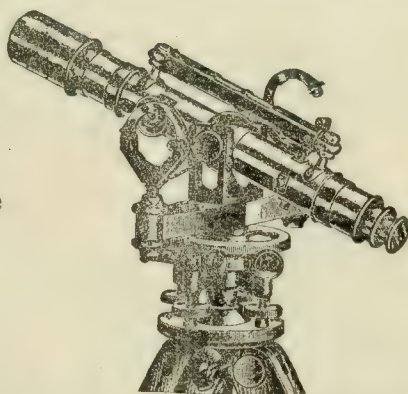
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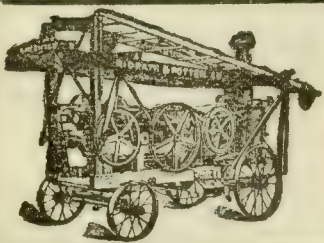
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# Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Store, Office Building**, Northeast Corner Orthodox and Frankford avenue, Philadelphia. Architect, Edward Schoppe, 315 South Fifteenth st., Philadelphia. Owner, W. Thomas, care of architect. Brick, reinforced concrete, steel and cut stone, 3 stories, 120x21 feet, slag roof, composition and maple floors, metal lath, terrazzo and marble work, iron work. Contract awarded to J. D. Fotheringham, Castor and Arrott streets, Philadelphia.

**Building (add.)**, 210-12 New street, Philadelphia, \$11,500. Architect, private plans. Owners, Energy Elevator Co., on premises. Brick and steel, 2 stories, 42x31 feet, 35x20 feet, slag roof, cement floors. Contract awarded to Clayton Loland, 229 North Water street, Philadelphia.

**Residence**, South side Solly street, West of Large street, \$8,385. Architect, private plans. Owner, William P. Hirling, 2612 Waterloo street, Philadelphia. Frame, 2 stories, 29x40 feet, hardwood floors, tile work, hot air heating, electric lighting. Contract awarded to William T. Garrison, 1338 North Tenth street.

**Residence**, West side Evans street, South of Murray street, \$4,000. Architect, private plans. Owner, John McCartney, 2731 Brill street, Philadelphia. Frame, 2 stories, 24x30 feet, hardwood and pine floors, electric lighting, hot air heating. Contract awarded to Morris Worrell, Andalusia, Pa.

**Residence and Store (add. and alts.)**, 2022 East Lehigh avenue, \$4,000. Architect, private plans. Owner, Thomas Vasey, on premises. Brick, 2 stories, 12x10 feet, general alterations. Contract awarded to John F. Carberry, 5729 McMahon avenue.

**Residence and Store alts. (and add.)**, 5608 Chew street, \$2,700. Architect, private plans. Owner, J. P. Bowes, on premises. Brick, 2 stories, 12x8 feet, general alterations. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

**Bank Building**, 715-17-19 Chestnut street, Philadelphia, \$200,000. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Integrity Title Insurance, Trust & Safe Deposit Company, Fourth and Green streets, Philadelphia. Limestone and concrete, 2 stories and mezzanine, 45x160 feet, steam heat, electric light, tile work, marble work, vaults and bronze work, iron stairs, ornamental iron work, cork tile floors, elevators. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Parish House and Parsonage**, Wistar and Wyncote avenue, Germantown, \$60,000. Architect, George V. Baum, 1511 Arch street, Philadelphia. Owners, Advocate Lutheran Church, on premises. Stone, brick and concrete, 3 and 1 stories, 50x39 feet and 50x60 feet, slate roof, pine floors, steam heat, electric light, metal lath, tile work, bond, iron work. Contract awarded to Alexander Betcher, Hatboro, Pa.

**Auto Service (add.)**, 316 West Cheltenham avenue, Philadelphia, \$48,000. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owners, Dabis Buick Co., on premises. Brick, second, 48x148 feet, slag roof, hot water heat, cement floors, tile work, electric work, waterproofing. Contract awarded to Smith Hardican Co., 1809 Callowhill street.

**Light Manufactory**, 1730-36 Ludlow street, Philadelphia, \$15,000. Architect, private plans. Owners, T. P. Mellon Estate, 1712 Ludlow street, Philadelphia. Brick, 1 story, 62x75 feet, slag roof, steam heat, cement floors, tile work, electric light. Contract awarded to George L. Dougherty, 1725 Ludlow street.

**Store and Apartment (alts.)**, 533 South street, \$15,000. Architect, H. Kline, 717 Bulletin Building, Philadelphia. Owner, Mrs. S. Kliene, 787 South street, Philadelphia. Carpentry and mill work, painting and glazing, tile work, hot water heating, electric work, plastering. Contract awarded to S. Rosen, 1317 South Fairhill street, Philadelphia.

**Twin Residence**, Edenheim Terrace, Chestnut Hill, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, M. Lowns and Frank Rieger, care of architects. Frame and stucco, 2½ stories, 32x32 feet, hot water heat, electric light, tile work, asphalt, shingle roof, hardwood floors. Contract awarded to A. G. Hickey, 2313 North Twentieth street, Philadelphia.

**Garages**, Sixtieth and Springfield avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Glenn O. Martin, Forty-first and Chester avenue, Philadelphia. Brick, 1 story, 90x176 feet, slag roof, cement floors, steam heating, electric lighting, steel, plumbing. Contract awarded to B. W. Glover, 5325 Florence street, Philadelphia, who is taking sub-bids due as soon as possible.

**Dairy (alts. and add.) and Garage**, 2113-21

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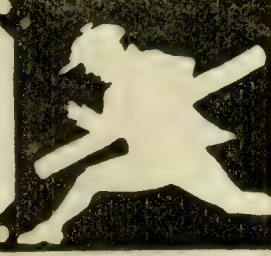
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West Westmoreland street, \$19,000. Architect, private plans. Owner, Charles Gross, 2123 Westmoreland street, Philadelphia. Brick, 2 stories add., 16x129 feet, general alterations, garage, 1 story, irregular size, cement floors, electric lighting. Contract awarded to J. G. T. Miller, 2325 West Allegheny avenue.

**Residence (alts.),** Mountain avenue and Sharpless avenue, Oak Lane, \$5,000. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, Edward Weil, on premises. Carpentry and mill work, painting, plastering, stone work, tile and marble work. Contract awarded to G. H. Evans, Inc., 105 North Thirteenth street, Philadelphia.

**Residence,** Graver's Lane and Stenton avenue, Chestnut Hill, Pa., \$7,000. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, Murray Earle, on premises. Stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric lighting, tile work. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

**Bungalow,** Fox Chase, Philadelphia, \$6,500. Architect, private plans. Owner, R. Creighton, 19 East Cambria street, Philadelphia. Frame, stucco, 1½ stories, 28x38 feet, hot air heat, electric lighting, asphalt shingle roof, yellow pine floors. Contract awarded to Mal-Bal Const. Co., 2620 Bonnacon street, Philadelphia.

**Bank Building,** 723-27 East Cheltenham avenue, Philadelphia, \$28,000. Architect, private plans. Owners, Northern National Bank, Seventh and Dauphin streets, Philadelphia. Brick, 1 story, 42x32 feet, slag roof, vacuum heat, electric work, cement work, tile and marble work, waterproofing, metal lath. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

**Shop,** Southeast Corner Thirty-sixth and Walnut streets (rear), Philadelphia, \$20,000. Architect, private plans. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets. Reinforced concrete, 2 stories, 40x93 feet, slag roof, electric light, cement and pine floors, steel sash. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street.

**Manufacturing Building (alts.),** 728 Cherry street, \$10,000. Architect, private plans. Owners, Commonwealth Title & Trust Co., Twelfth street above Chestnut. Reinforced concrete underpinning. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

**Store and Residence (alts.),** 1615 Montgomery avenue, \$6,000. Architect, private plans. Owner, I. Maluck, 738 South Fourth street, Philadelphia. General alterations. Contract awarded to K. Ignator, 1101 North Forty-second street, Philadelphia.

**Garage,** 1537½ East Montgomery avenue, Philadelphia, \$6,600. Architect, private plans. Owner, May Radwell, on premises. Brick, 1 story, 16x24 feet, 64x20 feet, slag roof, cement floors, electric lighting. Contract awarded to

Edward Fay & Son, 2 South Mole street, Philadelphia.

**Residence and Store (add.),** 41 South Nineteenth street, \$6,000. Owners, Samuel S. Fretz and Samuel Felton, Land Title Building, Philadelphia. Brick, 2 stories, 26x18 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Joseph Cichiny, 2135 North Howard street.

**Fence Wall,** South side Indiana avenue, West of Eleventh street, \$5,000. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Reinforced concrete. Contract awarded to Vare Contg. Co., 1120 Race street, Philadelphia.

**Residence and Store (add.),** 3132 Richmond street, Philadelphia, \$3,800. Architect, private plans. Owner, Joseph Krygiel, on premises. Brick, 2 stories, 14x40 feet, slag roof, pine floors. Contract awarded to John Matraszork, 3163 Edgemont street.

**Residences (2),** South side Benson avenue, East of E street, \$3,500 each. Architect, private plans. Owner, William Ryley, care of builder. Brick, 2 stories, 15x40 feet, slag roof, electric work. Contract awarded to Joseph Ashby, Fox Chase, Philadelphia.

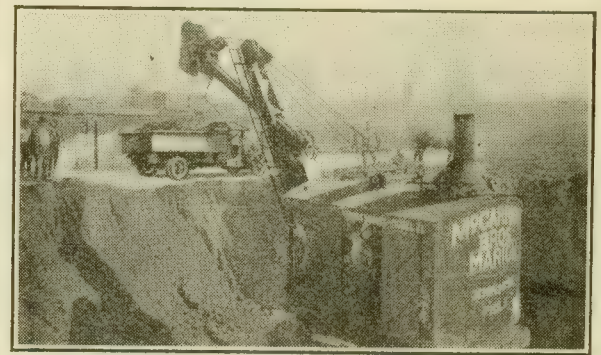
**Store and Storage Building (add.),** 235 South Eighth street, \$4,500. Architect, private plans. Owners, A. Hopkins, Jr., & Co., on premises. Brick, 2 stories, 21x64 feet, slag roof, cement and pine floors. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

**Garage,** 3416 West Clearfield street, Philadelphia, \$2,500. Architect, private plans. Owner, George Nagel, on premises. Brick, 1 story, 60x18 feet, slag roof, cement floors. Contract awarded to Jones & Davies, 3453 "I" street, Philadelphia.

**Residence and Store (alts. and add.),** 2829 North Broad street, \$2,000. Architect, private plans. Owner, George Schweig, 1908 Erie avenue, Philadelphia. Brick, 1 story, 12x10 feet, third story, 14x10 feet, slag roof, general alterations. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

**Store (alts.),** Seventy-first and Dicks avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Morris Sacks, 1145 South Sixtieth street, Philadelphia. Cement work, brick work, hot air heating, carpentry work, painting, yellow pine floors, flush bulks. Contract awarded to Mal-Bal Cons. Co., 2620 Bonnacon street.

**Apartment House (add.),** 3411 Powelton avenue, Philadelphia, \$6,000. Architect, private plans. Owner, Samuel Willig, 407 Lincoln Building, Philadelphia. Brick, 2 stories, 40x22 feet, slag roof, hot water heat, oak and yellow pine floors, tile work, electric



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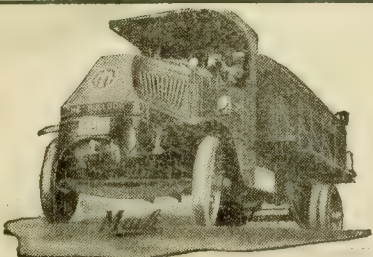
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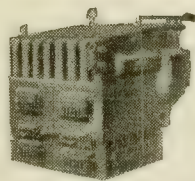
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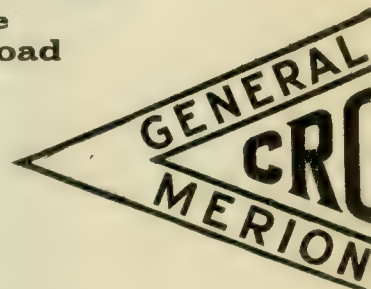
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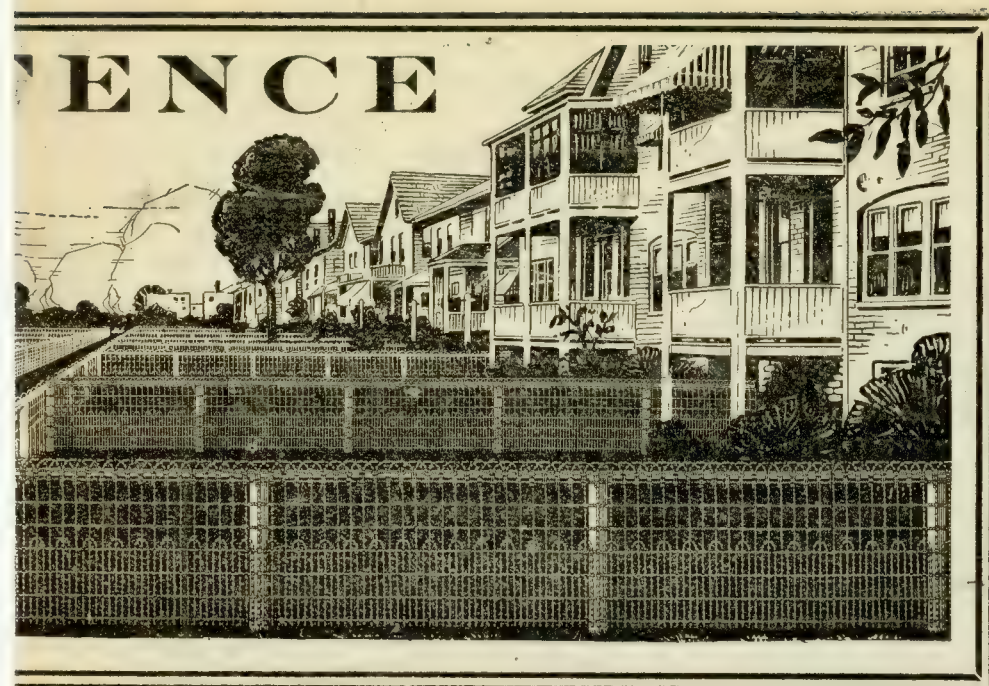
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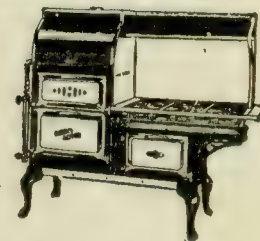
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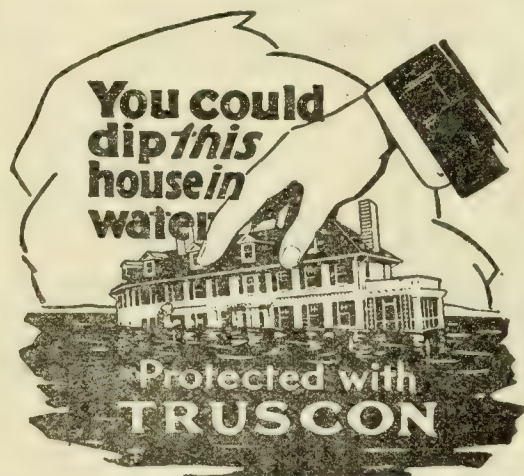
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work. Contract awarded to Harry Platt, 1627 Sansom street, Philadelphia.

**Residence**, North side Verree Road, East Ferndale street, Philadelphia, \$3,700. Architect, John Wylie, Jr., 648 Mayfield street, Philadelphia. Frame, 1 story, 30x50 feet, shingle roof, hot water heat, composition floors, electric work. Contract awarded to William Loftus, 3321 North Eleventh street, Philadelphia.

**Store and Dwellings (add. and alts.)**, 2510 South Broad street, \$2,800. Architect, private plans. Owner, Frank Di Lucci, 1713 South Twenty-second street, Philadelphia. Brick, 1 story, 16x8 feet, slag roof, hot water heat, yellow pine floors, electric work. Contract awarded to A. Terrise, 1340 South Colorado street, Philadelphia.

**Store and Dwelling**, 2701 Sears street, Philadelphia, \$2,500. Architect, private plans. Owner, J. F. Donolow, on premises. Brick, 2 stories, 15x21 feet, slag roof, yellow pine floors. Contract awarded to Weinstein & Pearson, 275 South Fifty-seventh street, Philadelphia.

**Store (alts.)**, 1649 Frankford avenue, Philadelphia, \$5,000. Architect, private plans. Owners, Erwin Binckley Co., Tabor Road and Rising Sun avenue. General alterations, carpentry, mill work, plastering. Contract awarded to Knox-Landers Co., 1132 Vine street.

**Residence (alts. and add.)**, 5133 Market street, Philadelphia, \$4,000. Architect, private plans. Owner, D. H. Kabakjian, Lans-

downe, Pa. Brick, 1 story add., 4x16 feet, general alterations. Contract awarded to M. K. Boyajian, 6337 Market street, Philadelphia.

**Store (alts. and add.)**, 929 Cherry street, Philadelphia, \$2,400. Architect, private plans. Owner, Charles M. Webb, 1302 Filbert street, Philadelphia. Brick, second story add., 16x28 feet, general alterations. Contract awarded to Frank I. Wintz, 1613 North Twenty-seventh street, Philadelphia.

**Garage**, North side Rhaun street, East of Pine Road, Philadelphia, \$3,000. Architect, private plans. Owner, Joseph H. Nestor Estate, Pine Road, Fox Chase, Philadelphia. Brick, 1 story, 81½x16 feet, slag roof, cement floors, electric work. Contract awarded to George Krewson, 330 Franklin street, Cheltenham, Pa.

**Garage**, 1730 Spruce street, Philadelphia (rear), \$3,000. Architect, private plans. Owner, Dr. J. W. Frank, 2025 Chestnut street, Philadelphia. Brick, 1 story, 21x25 feet, slag roof, cement floors, electric lighting. Contract awarded to John P. Hallahan, 2315 Walnut street.

**Two-Family Residence (add.)**, 2007 Pine street, Philadelphia, \$2,800. Architect, private plans. Owner, D. W. Kramer, 4722 Sansom street, Philadelphia. Brick, 2 stories, 6x15 feet, slag roof, electric work. Contract awarded to Fine & Seidman, 814 North Marshall street.

**Motion Picture Theatre (alts.)**, Southeast

Corner Ridge avenue and Natrona street, Philadelphia, \$2,000. Architect, private plans. Owners, Green & Altman, on premises. General alterations. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Residence and Store (alts.)**, 2446 North Front street, Philadelphia, \$3,000. Architect, private plans. Owner, John Brady, 2019 East Cumberland street, Philadelphia. General alterations, carpentry and mill work, painting. Contract awarded to Trautman & McKeown, 2006 Tulip street.

**Garage**, 7110 Hegerman street, Philadelphia, \$2,000. Architect, private plans. Owner, Michael Affatto, on premises. Brick, 1 story, 38x32 feet, slag roof, cement floors, electric work. Contract awarded to Pasquale Camitale, 7149 Tulip street, Philadelphia.

**Residence (alts.)**, 250 West Tulpehocken street, Philadelphia, \$2,200. Architect, private plans. Owner, William Boyd, on premises. General alterations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

**Store and Dwelling (add.)**, Northwest Corner Forty-fifth and Locust streets, \$7,000. Architect, private plans. Owner, S. J. Gandin, on premises. Brick, 2 stories, 16 feet 5 inches x 24 feet 2 inches, slag roof, hot water heat, oak and yellow pine floors, tile work, electric light. Also 1 story brick garage, 16x22 feet (\$1,000). Contract awarded to Thomas B. Manahan, 2009 Sansom street, Philadelphia.

**Residence (add.)**, 2041 Green street, Philadelphia, \$2,800. Architect, private plans. Owner, Louis Freidman, on premises. Brick, 3 stories, 14x13 feet, and 1 story, 14x10 feet, slag roof, pine floors. Contract awarded to J. Newborn, 831 North Sixth street, Philadelphia.

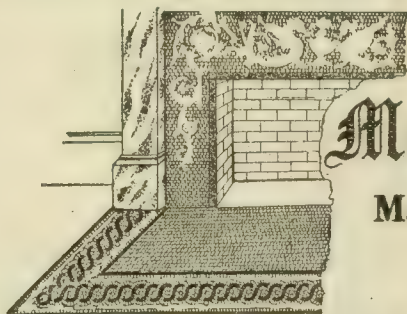
## Pennsylvania

### Construction News

**Operating Pavilion and Equipment**, Lock Haven, Pa. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Lock Haven Hospital, Lock Haven, Pa. Brick and stone, refrigerator equipment, kitchen equipment, laboratory equipment, elevators. Plans in progress.

**Residence (alts.)**, Ardmore, Pa. Architects, Stewartson & Page, 315 South Fifteenth street, Philadelphia. Owner, Theo. W. Reath, on premises. Architect taking bids due June 6th.

**Residence**, Bustleton, Pa. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owner, W. Lee, Twenty-sixth and Selzer streets, Philadelphia. Stone, 2½ stories,



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**Residence and Garage**, Pottsville, Pa. Architect, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Frank L. Fisher, Pottsville, Pa. Brick, 2½ stories, 44x45 feet, hot water heating, slate roof, electric lighting, hardwood and cement floors, tile work. Owner taking bids due June 9th.

**Residence**, Brookline, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, E. T. Watts, Ardmore, Pa. Frame, stucco, 2½ stories, 30x28 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Plans in progress.

**Twin Residence**, 538-40 Franklin street, West Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, Edwin G. Ruth, 601 Penn avenue, West Reading, Pa. Brick and concrete, 2½ stories, 32x50 feet, slate roof, yellow pine floors, hot water heat, electric light. Plans in progress.

**Garage**, Sixteenth and Perkiomen avenue, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, Walter E. Knouse, 710 North Second street, Reading, Pa. Brick, concrete, structural steel, 1 story, 96x126 feet, slag roof, wood block and concrete floors, steam heating, electric lighting, steel sash, rolled steel skylights, fire doors, dampproofing. Plans in progress. Owner will take sub-bids.

**Residence and Garage**, Pottsville, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Frank L. Fisher, Pottsville, Pa. Brick, 2½ stories, 44x45 feet, hot water heating, slate roof, electric lighting, hardwood and cement floors, tile work. Plans completed. Owner ready for general bids.

**Residence (alts. and add.)**, Philipsburg, Pa. Architect, G. S. Idell, 1705 Chestnut street, Philadelphia. Owner, T. J. Lee, Philipsburg, Pa. Frame, 2½ stories, 40x40 feet, asbestos shingle roof, hardwood floors, electric lighting, plumbing, tile work. Architect will be ready for bids in a few days.

**Garage (4 cars)**, Philipsburg, Pa. Architect, G. S. Idell, 1705 Chestnut street, Philadelphia. Owner, J. E. Fryberger, Philipsburg, Pa. Brick, concrete and steel, 1½ stories, 40x32 feet, asbestos slate, shingle roof, cement floors, hot water heat, wood sash. Architect ready for bids in a few days.

**Garage and Dance Hall**, Minersville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, S. E. Noel, Minersville, Pa. Fireproof, 2 stories, 50x155 feet, slag roof, hardwood floors, electric lighting. Preliminary plans in progress.

**Church**, Hazleton, Pa. Architect, R. A. Schuman, 202 State street, Trenton, N. J. Owners, St. John's Greek Catholic Church, Hazleton, Pa., care of architect. Brick and stone, 1 story and basement, 130x73 feet,

steam heat, electric light, slate roof, hardwood floors, leaded glass. Plans in progress.

**Bungalow**, Ardmore Park, Pa. Architect, Walter K. Durham, 323 Walnut street, Philadelphia. Owner, W. Keisel, Wynnewood Road, Ardmore, Pa. Building block and stucco, 1½ stories, 45x25 feet, 45x25 feet, tile or shingle roof, hardwood floors, electric work, hot water heat, tile work. Architect ready for general bids in a few days.

**Residence**, Chester, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, H. H. Fields, Chester, Pa. Tapestry brick, 2½ stories, 25x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans completed. Owner will take sub-bids.

**Masonic Building**, Philipsburg, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owners, Masonic Building, Philipsburg, Pa. Brick and concrete, 3 stories and basement, 60x88 feet, Johns Manville roof, concrete floors, vapor heat, electric light, tile work, hollow tile, tile work, roof ventilators. Architect taking sub-bids.

**Residence**, Wynnefield, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, B. Wolinsky, Northwestern Agency, Fifty-second and Baltimore avenue. Stone and stucco, 2 stories, 50x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Residence**, Drarock Road, Haverford, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Andrew Calhoun, Wyoming avenue, Ardmore, Pa. Penn building block, 2 stories, 25x42 feet, hot water heat, electric light, tile work, Penn tile roof, hardwood floors, rock-bond plaster, cement. Plans completed. Owner will take bids.

**Colonial Bakery (alts. and add.)**, Lancaster avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Edward J. Lyons, on premises. Penn building block and steel, 1 story, 25x40 feet, asbestos built-up roof, tile, cement and maple floors, electric light, electric motors, Kauffman built-in ovens, ventilating system, metal lath, rolled steel sash, fire doors, fireproof partitions. Plans in progress. Architect ready for bids in one week.

**Public Garage**, Bryn Mawr, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, R. G. Cotter, 14 South Merion avenue, Bryn Mawr, Pa. Penn building block and steel, 1 story, 55x63 feet, hot water heat, asbestos built-up roof, cement floors, electric light, electric air pumps, overhead washer, gasoline pumps and tanks, fire outlets, hot

water heat. Plans in progress. Architect ready for bids in one week.

**Public Garage**, 39 West Lancaster avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Thomas Harrison, Ardmore, Pa. Penn building block and steel, 1 story, 31 feet 6 inches x 60 feet, hot water heat, electric light, asbestos built-up roof, cement floors, electric air pumps, gasoline pumps and tanks, fire outlets. Plans in progress. Architect ready for bids in one week.

**Bank (alts. and add.)**, Carlisle, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Farmers' Trust Co., Dr. Sadler, chairman, Building Committee, Carlisle, Pa. Brick, 2 and 1 stories, 18x98 feet, composition roof, tile and marble floors, hollow tile, electric light, tile, marble and terrazzo work (vault reserved), sheet metal skylights, metal window guards, bank fixtures, bronze work, iron work. Owners ready for bids.

**Residence (alts.)**, North Front street, Harrisburg, Pa., \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, J. W. Pomraning, Kunkel Building, Harrisburg, Pa. Stone, 2½ stories, 76x66 feet, tile roof, hardwood floors, electric light, general interior and exterior alterations. Owner will build.

**Manufacturing Building**, Lykens, Dauphin County, Pa., \$300,000. Architect, private plans. Owners, American Briquet Co., A. D. Parker, president, Land Title Building, Philadelphia. Brick, steel and concrete. Details undecided. Plans in progress. Owner will sublet.

**Bank Building (alts. and add.)**, Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre. Owners, Miners' Bank, Wilkes-Barre, Pa. Brick, granite, reinforced concrete and steel, built-up composition roof, concrete, cork tile, marble and terrazzo floors, hollow metal sash, rolled steel skylights, iron stairs, waterproofing, terra cotta, ornamental iron work. Architect taking bids due as soon as possible.

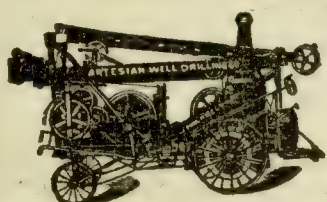
**Glenside Weldon School**, Boston Road, Northeast of Parkdale avenue, Glenside. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, J. O. Potts, Glenside, Pa. Brick, cut stone, steel, granite and stone, 2 stories and basement, 136x106 feet (plumbing, heating and electric separate bids), slate and slag roof, composition, yellow pine and concrete floors, metal lath, hollow tile, hol-

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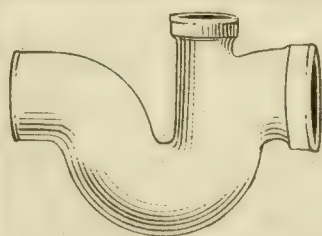
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**School**, McKinley, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, Abington Township School Board, care of J. O. Potts, secretary, Glenside. Brick, reinforced concrete, bluestone, limestone, granite and steel, 2 stories, 48x27 feet, wing 115x50 feet (plumbing, heating and electric separate bids), metal lath, kalamein doors, bond, slate slag roof, maple floors. Owners taking bids due June 4th at 7 P. M.

**High School**, Green Tree, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, School Board of Willistown Township, care of Sidney L. Roberts, secretary, Malvern, Pa. General construction, surety bond or certified check. Deposit, \$25.00 on each set. Refund, \$25.00. Owners taking bids due June 4th at noon.

**High School (add.)**, Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board of Abington Township, C. M. Doll, secretary, Elkins Park, Pa. Brick, concrete, stone, cut stone and steel, 2 stories, 94x109 feet (plumbing, heating and electric reserved), slate roof, composition, cement, marbeloid, yellow pine floors, metal lath, hollow tile, hollow metal sash, hollow metal floors, bond, floor hardener, ornamental iron work. Alternate for precast stone. Separate estimate for gymnasium, slag roof, 1 story, 96x70 feet. Owners taking bids due June 4th at 7 P. M.

**Grade School (add.)**, North Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, Elkins Park. Brick, reinforced concrete, cut stone, steel and stone, 2 stories and basement, 102x125 feet (plumbing, heating and electric and ventilating reserved), slate and slag roof, composition, cement and yellow pine floors, hollow tile, metal lath, rolled steel skylights, fire doors, bond, floor hardener, ornamental iron work. Owners taking bids due June 4th at 7 P. M.

**Power House and Manual Arts Building**, Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Board of Education, Abington Township, C. M. Doll, secretary, Elkins Park, Pa. Brick, stone, cut stone, 1 story, 82x71 feet (plumbing, heating and electric reserved), slate, slag roof, composition, wood block and marblod floors, metal lath, bond, ornamental iron work, brick stack 92 feet high. Owners taking bids due June 4th at 7 P. M.

**Church**, Ardmore, Pa. Architect, Benjamin

R. Stevens, 1737 Filbert street, Philadelphia. Owners, First Baptist Church, of Ardmore, Pa. Stone, cut cast stone and brick, 1 story, 100x41 feet, central heat, electric light, tile and marble work, bond, slate roof, pine and cement floors, linoleum. Architect taking bids June 7th.

**Residence**, Haverford Road, Ardmore, Pa. Architect, W. K. Durham, 323 Walnut street, Philadelphia. Owner, Samuel McKeeman, Belmont avenue, Ardmore, Pa. Stone, 2½ stories, 32x40 feet, wing 20x18 feet, slate roof, hardwood floors, hot water heat, electric light, tile work and remodeling stable on grounds into garage. Owner taking bids due as soon as possible.

**Parish Hall**, Hazleton, Pa. Architect, P. B. Sheridan, Markle Bank Building, Hazleton, Pa. Owners, Holy Trinity Slavoc Roman Catholic Church, Rev. Andrew Pavie, 123 Wyoming street, Hazleton, Pa. Brick, 1 story and basement. Architect taking bids due June 2nd.

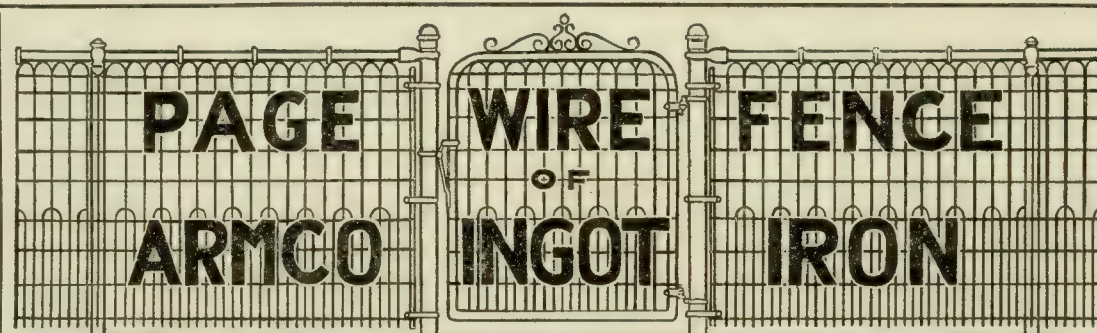
**Barn and Garage (rebuild)**, West Chester, Pa. Architect, private plans. Owners, State Normal School, care of Berkey H. Bond, Superintendent of Public Grounds and Buildings, Capitol Building, Harrisburg. Rebuilding of stable and garage complete, including electric work. Deposit, \$10.00. Refund, \$10.00. Plans and specifications may be obtained from Superintendent B. H. Boyd. Owner taking bids due June 12th at noon, standard time.

**Residence**, Swarthmore, Pa. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owners, Swarthmore College, Swarthmore, Pa. Stone, 2½ stories, 30x30 feet (plumbing, heating, electric, slate roof, oak and yellow pine floors, tile work, ornamental iron work. Architect taking bids due May 31st.

**School (alts.)**, Manoa Road, between Eagle Road and West Chester Pike. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, School District of Haverford Township, Joseph N. Huff, secretary, School Building, Oakmont, Pa. Hollow tile and slate work, carpentry, mill work, hot water heat, metal lath, plastering, painting, glazing, bond, iron work. Architect taking bids due as soon as possible.

**Store, Apartment and Garage**, North George street, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner W. J. Smutz, 24 North George street, York, Pa. Architects selected.

**Hotel (alts. and add.) to Apartment House**, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, Hotel York, N. M. McSherry, York, Pa. Brick, 4 stories, steam heat, electric light, metal lath, tile work, rolled steel skylights, fire escapes, hard-



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wood floors, roof ventilators. Plans in progress.

**Vaudeville Stage**, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, York County Agricultural Society, care of architect. Steel, reinforced concrete, 1 story, 40x60 feet. Architect ready for bids due June 4th.

**Church (alts.) and Parish House**, Pine street, Harrisburg. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa., and Cram & Ferguson, 33 West Forty-second street, New York. Owners, Pine Street Presbyterian Church, Rev. W. C. Cherry, 315 North Front street, Harrisburg, Pa. Stone, 3 stories, 70x130 feet, slag roof, hardwood floors, electric light, tile work, general alterations to church. Architects taking bids due June 1st.

**Church and Parsonage**, Fourth and Seneca streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel Ebner Building, Harrisburg. Owners, Tabernacle Baptist Church, care of architect. Stone, 2 stories and basement, 40x60 feet, and 2 stories, 20x50 feet, slate and composition roof, hardwood floors, hollow tile, roof ventilators (heating and plumbing reserved), electric light, metal lath, tile work, roof ventilators, hollow metal skylights. Architect taking bids due June 1st.

**Residence**, Cynwyd, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, William H. West, care of architect. Stone, steel and plastering, 2½ stories, 41x46 feet, metal lath (plumbing, heating and electric reserved), shingle roof, oak and yellow pine floors, bond, ornamental iron work. Architect taking bids due June 1st.

**Store Building (alts.)**, 911 South Main street, Shenandoah, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Harry Goldin, Shenandoah, Pa. New front. Architect taking bids due June 1st.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Owners taking bids due June 7th at 10 o'clock. Plans, \$2.50 per set. Proposal forms and specifications free.

Beaver County, A-2112, Economy Township, length 6,659 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Clarion County, R-218, A-1928-29-30-31, Edenburg Borough, 6,996 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$1,500.

Clarion County, R-91, A-2217, Washington Township, 12,696 feet. One course reinforced concrete. Certified check, \$2,000.

Crawford County, A-2246, Springboro Borough, 6,241 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Erie County, R-304, A-2308, North East Township, 12,214 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Erie County, R-88, A-2307, Venango Township, 24,395 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Indiana County, R-68, White Township, 2,727 feet. One course reinforced concrete. Certified check, \$1,000.

Lawrence County, R-233, A-2271, Scott and Plain Grove Townships, 18,189 feet. Either

bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$3,500.

Northampton County, A-2202 and 2203, Hanover and East Allen Townships, 22,866 feet. One course reinforced concrete. Certified check, \$4,000.

York County, R-216, Sec. 3, A-2175, Lower Chanceford Township, 26,812 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Owners taking bids due the same date for resurfacing the following roads:

Armstrong County, R-69, and Butler County, R-70, South Buffalo Township, Buffalo Township, 14,368 feet. Bituminous macadam, penetration method on reconstructed base course. Certified check, \$1,500.

Berks County, R-141, Tilden Township, 21,666 feet. Bituminous macadam, penetration method, on reconstructed base course. Certified check, \$2,500.

Butler County, R-73, Center and Butler Townships, 11,202 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Westmoreland and Fayette Counties, Route 247, Rostraver Township and Washington Township, 12,262 feet. Either bituminous macadam, penetration method, or bituminous surface course on reconstructed base course. Certified check, \$1,200.

Fayette County, R-117, North Union Township, 8,374 feet. Either bituminous macadam, penetration method or bituminous surface course on reconstructed base course. Certified check, \$1,000.

Luzerne County, R-170, Fairview and Hanover Townships, 19,618 feet. Bituminous macadam, penetration method, on reconstructed base course. Certified check, \$2,000.

Lycoming County, R-18, Loyalsock Township, 11,400 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Northampton County, R-175, Upper Nazareth Township, 20,586 feet. One course reinforced concrete. Certified check, \$2,500.

Columbia and Northumberland Counties, R-161, Conyngham and Mount Carmel Townships, 8,024 feet. Bituminous macadam penetration method on reconstructed base course. Certified check, \$1,000.

Washington County, R-108, North and South Strabane Townships, 16,413 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Certified check, \$2,000.

Westmoreland County, R-69, Hempfield Township, 10,300 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Certified check, \$1,500.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Owners taking bids due June 8th, at 10 A. M., for

construction of following roads. Plans, \$2.50 per set. Forms and specifications free.

Beaver County, R-204, A-1942, Chippewa and Patterson Townships, 7,979 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Beaver County, A-1950, Hopewell Township, 5,147 feet. One course reinforced concrete. Certified check, \$1,500.

Clarion County, A-2218, Washington Township, 5,766 feet. One course reinforced concrete. Certified check, \$1,500.

Clarion County, R-214 and 311, Sligo Borough, 5,187 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,000. (Also appli. 2326.)

Dauphin County, A-2025, Derry and Londonderry Townships, 22,890 feet. Either one course reinforced concrete or one course reinforced concrete and bituminous macadam penetration method on broken stone base. Certified check, \$4,000.

Erie County, R-304, A-2339, Amity Township, 12,508 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Northampton County, A-2309-2310, East Allen and Hanover Townships, 15,537 feet. One course reinforced concrete. Certified check, \$2,500.

Northampton County, R-165, R-166, A-2005, Wind Gap Borough, 13,627 feet. Either bituminous surface course on concrete foundation and hillside vitrified brick or one course reinforced concrete and hillside vitrified brick. Certified check, \$2,500.

Somerset County, R-50, A-2268-2269, Confluence Borough, 2,875 feet. One course reinforced concrete. Certified check, \$1,000.

Owners taking bids due June 8th for resurfacing the following roads:

Blair County, R-53, Juniata, Blair and Allegheny Townships, 26,018 feet. Bituminous macadam penetration method on reconstructed base course. Certified check, \$2,500.

Bucks County, R-281, Middletown Township, 22,080 feet. Bituminous macadam penetration method on reconstructed base course. Certified check, \$2,500.

Bucks County, R-152, Doylestown and Buckingham Townships, 16,803 feet. Bituminous macadam penetration method on reconstructed base course. Certified check, \$1,500.

Butler County, R-73, Mercer Township, 10,548 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Fayette County, R-247, Perry and Dunbar Townships, 23,849 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Certified check, \$2,500.

Greene County, R-111, Franklin Township, 12,017 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Certified check, \$1,200.

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Lehigh County, R-163, South Whitehall Township, 19,500 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Certified check, \$2,000.

Northumberland County, R-161, Coal Township, 17,858 feet. Bituminous macadam penetration method on reconstructed base course. Certified check, \$1,500.

Tioga County, R-196, Richmond and Covington Townships, 13,977 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Westmoreland County, R-118, Hempfield Township, 23,917 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Certified check, \$2,500.

## Pennsylvania Contracts Awarded

**Monygroes Cottage**, Bryn Mawr, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Marion Edwards Park, Bryn Mawr, Pa. Frame, 1 story, 15x30 feet, second story, 15x20 feet, heating alts., shingle roof, hardwood floors, tile work, new partitions, carpentry and mill work, painting and glazing. Contract awarded to R. C. Ballinger, 925 Walnut street, Philadelphia.

**Residences**, Brookline, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Arlington Evans, West Philadelphia High School for Boys, Forty-eighth and Walnut streets, Philadelphia. Stone and stucco, 2½ stories, 25x40 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Reed & Reed, Drexel Hill, Pa.

**Residences (9)**, Lansdowne, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, name withheld. Stone, brick and hollow tile and stucco, 2½ stories, 25x36 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to Edward Harris Smith, Lansdowne, Pa.

**Stable**, Villa Nova, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Morris Clothier, Villa Nova, Pa. Stone, 1 story, slate roof, electric light. Contract awarded to Millard N. Croll, Radnor, Pa.

**Store (alts. and add.)**, Second street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Hoover Furniture Co., 1415 North Second street, Harrisburg. Brick, 3 stories, 45x50 feet, slag roof, pine floors, electric work. Contract awarded to C. W. Strayer, Market Square, Harrisburg.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania State Highway Department, Harrisburg, Pa.

Monroe County, A-3141, Smithfield Township. Low bidder: to John F. Gill Co., Wayland, N. Y., \$92,994.75.

Northampton County, A-2145, Tatamy Borough and Palmer Township. Contract awarded to Ambler Davis Co., Philadelphia, Pa., \$61,758.

Northampton County, Appli. 2231, Nazareth Borough. One course reinforced concrete, \$42,379.20. Contract awarded to Neumeyer Brothers, Bethlehem, Pa.

**Residence**, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owner, F. R. Zinn, York, Pa. Stucco, 2½ stories, 35x25 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to W. E. Henry, York, Pa.

## New Jersey Construction News

**Grand Stand**, Virginia and Magellan avenues, Atlantic City. Architects, Dobbins & Schmidt, Segal Building, Atlantic City, N. J. Owners, Atlantic City Kennel Club, Segal Building, Atlantic City. Frame, concrete, 1 story, 45x252 feet, rubberoid roof. Plans in progress.

**Apartment**, Dover and Atlantic avenues, Atlantic City, N. J. Architects, Dobbins & Schmidt, Segal Building, Atlantic City. Owners, Shapiro Knoll Gold Co., Atlantic City, N. J. Brick, steel, 3 stories, 45x95 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work. Plans in progress.

**Twin Residences (24)**, Atlantic City, N. J. Architects, Dobbins & Schmidt, Segal Building, Atlantic City, N. J. Owner, H. J. Gold, 1309 Atlantic avenue, Atlantic City, N. J. Frame and stucco, 2 stories, 32x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (12)**, Andover Gardens, Atlantic City, N. J. Architects, Dobbins & Schmidt, Segal Building, Atlantic City, N. J. Owner, Nathan Whiteman, Atlantic City, N. J. Brick, 2 stories, 30x42 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Residence and Garage**, Ventnor, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Harry Weiss, care of architect. Hollow tile, stucco and brick, 2½ stories, 36x65 feet, and 1 story, 10x20 feet, Spanish tile roof, hardwood floors, modulated system of heating, electric lighting, tile and marble work, cement work. Architect taking bids due June 5th.

**Infirmiry**, Princeton, N. J. Architects, Day & Klauder, Franklin Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Reinforced concrete, stone, steel, bluestone, limestone, 3 stories and ground, 150x100 feet, steam heating, electric lighting, metal lath, tile and marble work, fire and kalamein doors, bond, slate roof, cement floors, linoleum, terra cotta, hollow tile, plumbing, iron stairs, ornamental iron work. Architects taking sub-bids.

**Bank Building (add.)**, Atlantic City, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, Guarantee Trust Company, care of architects. Brick, steel, concrete, 7 stories add., 150x100 feet, tile floors, metal lath, electric light, tile and marble work, terra cotta. J. Mathis & Son, Guarantee Trust Building, Atlantic City, N. J., taking sub-bids.

**School**, Morrisville, N. J. Architects, Fowler & Seaman, Fitzcharles Building, Trenton, N. J. Associate architect, T. B. Stockham, Morrisville, N. J. Owners, Morrisville School Board, Mr. Taylor, secretary, Morrisville, N. J. Brick, hollow tile, steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine floors (heating, plumbing and electric work reserved), hollow tile, metal lath, safety treads, roof ventilators, rolled steel sash, fire doors, bond, steel stairs, ornamental iron work, metal ceilings, waterproofing and damp-proofing. Owner ready for bids due June 13th.

**Tuberculosis Infirmiry Building (add.)**, Glen Garden, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, care of Dr. English, Glen Garden, N. J. Hollow tile and stucco, 2 stories, 30x83 feet, tin roof, reinforced concrete and tile floors, electric light, tile work. Architect taking bids due June 7th.

**School**, Westville, Gloucester County, N. J.

Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Depford Township School Board, H. I. Clement, Westville, N. J. Brick, 1 story and basement, 6 rooms (heating, plumbing and electric work reserved), shingle roof, maple floors, hollow tile, metal lath. Owners taking bids due June 1st.

**Theatre**, Westville, N. J. Architect, J. E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, B. A. Harrison, Westville, N. J. Cement block, brick and stucco, 1 story, 39x102 feet, steam heat, slag roof, electric light, pine floors, roof ventilators, hollow metal skylights, kalamein doors, metal ceilings. Owner taking bids.

**North Rosedale School**, Thirty-sixth and Cramer streets, Camden, N. J. Architects, Lackey & Hettle, 509 Market street, Camden, N. J. Owners, Board of Education, Elwood C. Bunting, chairman, Building Committee, and A. Austermuhl, secretary of Board, Camden, N. J. Lowest bidders: General, H. John Homan, Seventeenth and Chestnut streets, Philadelphia, \$264,500; Fred Lang, Audubon, N. J., \$288,973. Electric, Nagel Elec. Co., 263 South Sixtieth street, Philadelphia, \$5,580. Heating, Deckmann Heating Co., Camden, N. J., \$18,493. Plumbing, Lionel Simpson, 816 Division avenue, Camden, \$12,647.50.

**Police and Fire Station (alts. and add.)**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, E. L. Baker, City Hall, Atlantic City, N. J. Lowest bidder: Wilbert Beaumont, 1 South Tennessee avenue, Atlantic City, N. J.

**Grade School**, Lenola, N. J. Architect, Frank Sanders, Penn Bank Building, Chester, Pa. Owners, Board of Education, Moorestown, N. J., L. E. Klotz, District Clerk, Moorestown, N. J. Low bidders: George W. Shaner & Son, Palmyra, N. J., \$69,880; Chester Const. & Cont. Co., Chester, Pa., \$74,500.

**High School (add.) and Grade School**, Moorestown, N. J. Architect, Frank Sanders, Penn Bank Building, Chester, Pa. Owners, Board of Education of Moorestown, L. E. Klotz, District Clerk, Moorestown, N. J. Low bidders: Chester Const. & Cont. Co., Chester, Pa., \$50,000; George W. Shaner & Son, Palmyra, N. J., \$51,400.

## New Jersey Contracts Awarded

**Telephone Building**, Seventh and Federal streets, Camden, \$1,000,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, limestone, concrete and steel, 3 stories and basement, 136x140 feet, slag roof, concrete floors, steam heat, electric light, hollow tile, metal lath, tile, marble and terrazzo work, hollow metal sash, bond, waterproofing, iron stairs and ornamental iron work. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Male and Female Ward**, Insane Asylum, Northfield, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Atlantic County, Fred W. Willets, Clerk, Guarantee Trust Building, Atlantic City, N. J. Brick, 3 stories, 32x80 feet each, slate roof, pine floors. Contract awarded to A. D. Brown, 1 South Delancey street, Atlantic City. Plumbing and heating to Frank Walsh, 908 Atlantic avenue, Atlantic City, N. J. Electric work, to Electrical Equipment Co., 16 North Ohio avenue, Atlantic City, N. J.

**Store, Post Office and Apartments**, Moorestown, N. J. Architect, Byron H. Edwards, 34



South Seventeenth street, Philadelphia. Owner, Mr. Wolf, Moorestown, N. J. Brick and castone, 2 stories, 97x62 feet, slag and tin roof, cement and pine floors, hot water heat, electric light, metal lath, hollow metal skylights, bond, iron work. Contract awarded to Harry Vennell, Moorestown, N. J.

**Residence**, Haddonfield, N. J., \$12,000. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, William E. Haden, Haddonfield, N. J. Frame and stucco, 2½ stories, 40x25 feet, hot water heat, electric light, tile work, asphalt shingle roof, hardwood floors. Contract awarded to Mal-Bal Const. Co., 2620 Bonnafon street.

**Residence**, Haddonfield, N. J., \$9,000. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Mrs. Louise Bell Rau, Haddonfield, N. J. Frame, 2½ stories, 39 feet 4 inches x 24 feet 2 inches, hot air heat, electric light, tile work, asphalt shingle roof, yellow pine floors. Contract awarded to Mal-Bal Const. Co., 2620 Bonnafon street.

**Church**, Willow street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, St. Paul's A. M. E. Z. Church, Rev. I. B. Turner, 304 North Willow street, Trenton, N. J. Stone, brick, 1 story and basement, 46x75 feet, slate roof, hardwood floors, steam heat, electric light, metal lath. Contract awarded to Woodland Const. Co., 5905 Woodland Avenue, Philadelphia.

**Display Room (alts.)**, Delaware avenue and Boardwalk, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owners, Ruud Heater Mfg. Co., care of architect. General interior alterations, plate glass, tile work. Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City, N. J.

**Residence and Garage**, Atlantic City, N. J. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Mrs. F. W. Kuh, Atlantic City, N. J. Brick, 2½ stories, 52x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Morrell S. Bowen, 46 North Montgomery avenue, Atlantic City, N. J.

**Ice Storage House**, Woodstown, N. J. Architect, W. F. Koelle, Twenty-sixth and Oxford streets, Philadelphia. Owners, Woodstown Ice & Coal Co., Woodstown, N. J. Brick, 1 story, 42x64 feet, slag roof, cement floors. Contract awarded to W. F. B. Koelle Co., Twenty-sixth and Oxford streets.

## Miscellaneous Construction News

**Church (alt. and adds.)**, Dover, Delaware. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, People's Christian Church, care of Rev. R. C. Helfenstein, Dover, Delaware. Brick, 1 story, 94x40 feet, steam heat, tile work, slag roof. Plans in progress. Architect will take bids in two weeks.

**Residence (alts. and add.)**, Delaware avenue, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Spottswood Garland, 2300 Delaware avenue, Wilmington. Brick, stucco, 2 stories, 12x16 feet, slag roof, hardwood floors, heating extension, electric light, general alterations. Architect ready for bids.

**Club House**, location withheld. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, Dupont Country Club, care of Dr. H. Bradshaw, Dupont Building, Wilmington, Del. Stone, 1 story and basement, 81x45 feet, slag roof, hardwood floors, steam heat.

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electric light, metal lath. Architect ready for bids.

**Church,** Leetonia, Ohio. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Paul's Lutheran Church, Leetonia, Ohio. Brick, stone trim, 1 story and basement, 45x80 feet, slate roof, hardwood floors, vapor heat, electric light, metal lath, hollow tile, metal lath, ornamental iron work. Plans in progress.

**School,** Sykesville, Md. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owners, Board of Education of Carroll County, Md., care of M. S. Unger, secretary, Westminster, Md. Brick, 2 stories, 10 rooms, slag roof, pine floors, steam heat, electric light, hollow tile, tile work, roof ventilators. Owners taking bids due June 1st.

**Hotel** (Coquina), Ormond, Fla. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, James T. Vining, Ormond, Fla. Hollow tile and plaster, 3 stories. Contract awarded to O. P. Woodcock, Jacksonville, Fla. JE-P:ECf1b)) Pa.)fi

### SAFE CONSTRUCTION OF BUILT-IN GARAGES\*

"If a built-in garage is not properly constructed, it is a menace to life and property. Investigations showed that if a fire does start in a single or two-car garage, it is not likely to be more severe than would be withstood by the construction classed as affording one hour fire resistance by the Bureau of Standards of the Commerce Department, the Fire Underwriters' Laboratories, and other authorities. It follows that with an incombustible floor, and the garage separated from the rest of the building by unpierced partitions and ceiling that will meet the one hour fire test, there is no unreasonable fire hazard. Of course, the outside walls must be fire resistant, too, and so must outside windows and the garage doors, in order to prevent flames from breaking out and spreading fire through windows, or to exterior woodwork above. The code does permit, under stringent safeguards, a single swinging, self-closing fire door leading from the garage directly into the house, but we strongly advise that there shall be no opening whatever between the two. It is much safer to enter the garage from the outside."

Six rules from the code for motorists and builders who desire complete directions, are here arranged, starting with floor construction, walls and partitions, then outside doors and windows, and dealing finally with the permissible case

\*From an interview with Mr. Ira H. Woolson, chairman of the Building Code Committee of the Department of Commerce, and consulting engineer of the National Board of Fire Underwriters, drawn from the building code in the Recommended Minimum Requirements for Small Dwelling Construction, published by the Department of Commerce.

of a door directly between the garage and the dwelling.

Rule 1. Garage floors shall be of concrete or equally fire resistive and impervious material.

For convenience in cleaning and to prevent dangerous accumulations of water, oil or grease, all parts of the floor should drain naturally.

Rule 2. Walls and partitions shall be built to meet the requirements of the standard one hour fire test.

Many materials are acceptable under this rule, such as brick, hollow tile, concrete block, or gypsum block four inches thick, or reinforced concrete three inches thick. As a minimum requirement, walls may also be constructed of wooden studs placed 16 inches center to center, with metal lath attached outside and inside. The outer lath is to be plastered and back-plastered with Portland cement stucco, and the inner lath plastered with  $\frac{3}{4}$ -inch Portland cement or gypsum plaster. For interior partitions separating the garage from the rest of the dwelling,  $\frac{3}{4}$ -inch Portland cement or gypsum plaster on metal lath, on both sides of studs spaced 16 inches apart, is satisfactory. The specifications for metal lath and plaster to be used are given fully in the Code Committee's Report.

Rule 3. The combined floor and ceiling construction directly above the garage shall be unpierced, and shall have a fire resistance of one hour. The same rule applies to the roof when the garage is attached to the side of the dwelling.

Ceilings or roofs of reinforced concrete, or some other type of incombustible construction that meets the fire test, are best and most reliable. In the case of true built-in garages, a good, inexpensive overhead construction is as follows:

Ordinary 2-inch or thicker floor joists may be used, spaced not more than 16 inches center to center, and properly bridged. The ceiling should be of heavy metal lath weighing not less than 3 pounds per square yard, and Portland cement or gypsum plaster not less than  $\frac{3}{4}$ -inch thick. The metal lath is to be attached to the joists by sixpenny nails driven nearly home and the heads turned over against the lath, and is to be bent down 6 inches along the walls on all sides and securely attached to them. The flooring above the ceiling is to be double, of  $\frac{7}{8}$ -inch rough and finished floor boards, with a layer of asbestos or other high-grade floor felt between.

Where the garage is attached to the side of a dwelling, an equivalent construction for the roof can easily be devised.

Rule 4. When a garage is located beneath a dwelling, all outside doors and windows with their frames and sash shall

be of standard fireproof construction, and glazed with wire glass.

Only products approved by competent authorities should be used. A large variety of fire doors and windows have been tested and approved by the Underwriters' Laboratories, and are a standard commodity in the building material market. It is important that such devices should be installed in metal frames, and that the same hardware be used as that with which they were equipped when tested. If not, they may fail during a fire. Fire doors are made in both swinging and sliding types, and many of the former are as artistic as wooden doors. Wired glass glazing is required in all outside windows and doors to prevent flames from a fire in the garage from breaking through and endangering the structure or windows above.

Rule 5. Openings from a dwelling into a garage shall be restricted to a single doorway. This opening shall be protected by a standard, swinging, self-closing fire door, with approved fire resistive frame and hardware. No glass shall be permitted in such a door.

A self-closing fire door is one that normally swings shut by a mechanical device. A swinging door is required because it fits closely into its frame, and thereby prevents passage of heat and smoke when attached by fire. Wired glass is not allowed in this door because it is liable to soften and sag from its fastenings at a temperature of about 1,600 degree Fahrenheit, which is a heat easily produced by burning gasoline or oil. But, as stated above, it is better to have no opening in any of the partitions.

Rule 6. When a doorway connects directly with a cellar or basement on the same or lower level in which there is any heating device or gas fixture, the door sill shall be raised at least one foot above the garage floor level, or the doorway shall lead into a vestibule which connects with the cellar or basement by a second door.

This is to prevent fumes from gasoline which may leak or be spilled upon the floor from reaching a furnace fire or gas light that might be located in any lower portion of the building. It is well known that gasoline vapors are heavier than air, and will accumulate on a floor like water, and flow to any lower level, and if they come in contact with fire of any kind—even a spark—will ignite and flash back to the starting point, and cause an explosion. Hence the high door sill.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.



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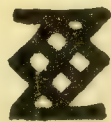
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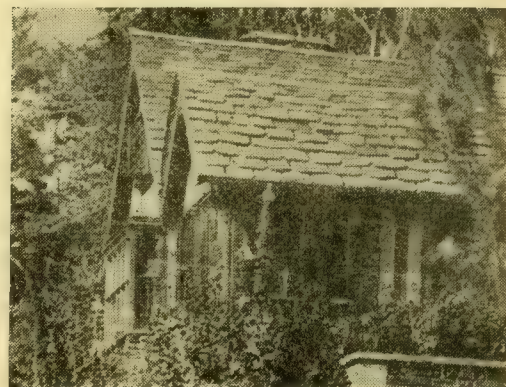
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June 6, 1923

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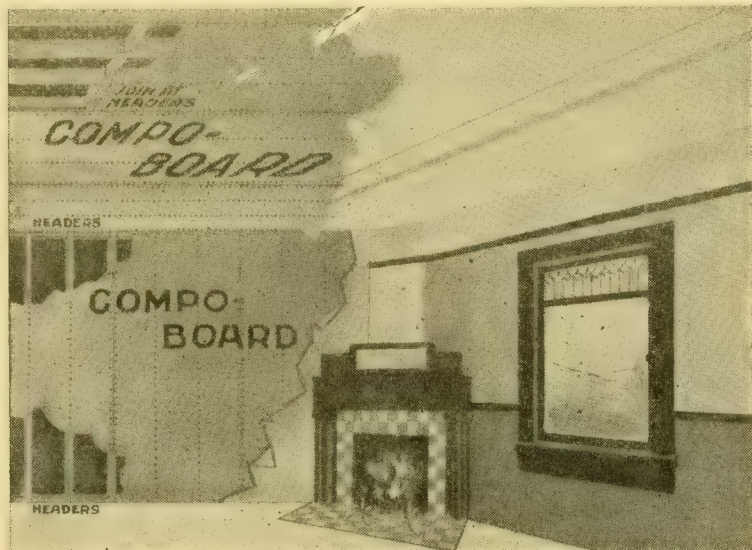
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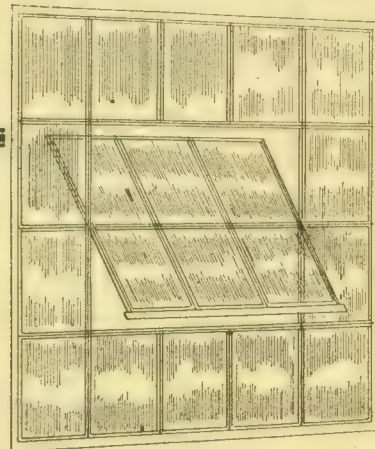
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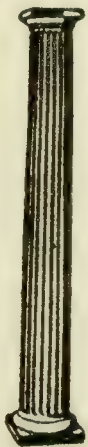
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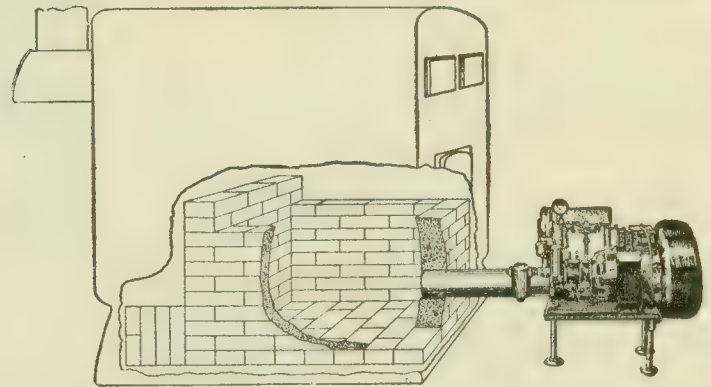
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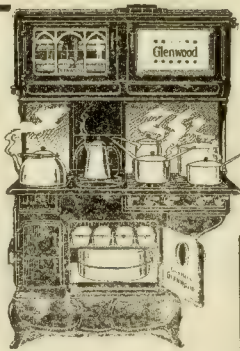


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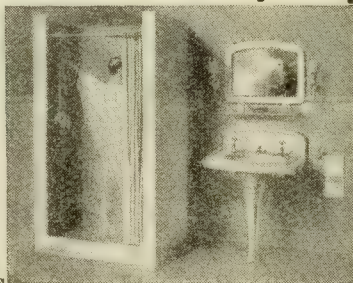
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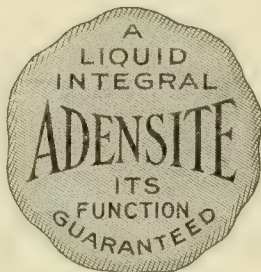
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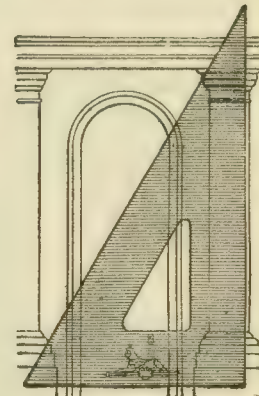
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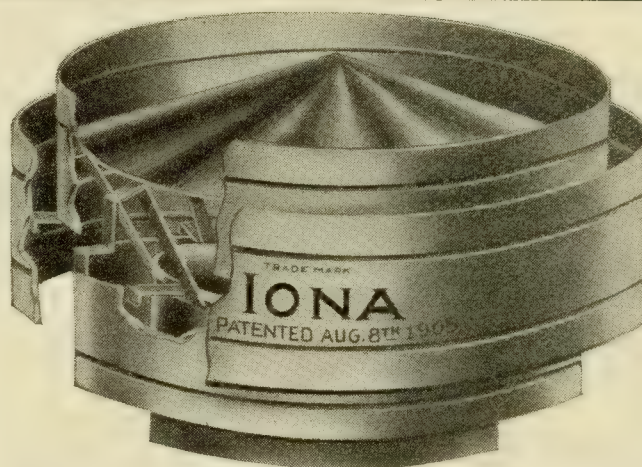
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 23

PHILADELPHIA  
June 6, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

Advertising Manager, L. A. DeLone

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To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

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Subscriptions not discontinued at expiration  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### PROSPERITY AND THE BUILDING TRADES

BY GEORGE WOODRUFF, *Vice President The  
National Bank of the Republic,  
Chicago*

**A**FTER carefully studying the important factors entering into our business activity we are forced to conclude that our building boom has been supporting our recent prosperity, and this is well illustrated by the building permits issued in the principal cities of the United States. Never in history have we had such a great amount of building, and the stimulating effect of this construction activity has been felt in practically all manufacturing lines.

In view of existing conditions it is of great importance for us to note that at the present time there are indications that increasing costs will slow up building activities and that there are many current reports of a buyers' strike. Of course, if such a "strike" should come about there may develop a belief that it will be well to wait for a very considerable fall in building costs before going ahead with building contracts and this would be a very unfortunate development, because if our building activities are now interrupted the chief support of prosperity will be withdrawn and some degree of business recession will follow. It would therefore seem as if those who are engaged in the building industry could

render a great service to themselves and to the country if they were now promptly to adopt the slogan, "Build in 1924," for such a slogan would tend to hold costs down during 1923, prevent any undue spread of the talked of buyers' strike, and at the same time keep the people of our country in a mood to build. Prospective building activity in 1924 would tend to convince the people that it would be unprofitable to cancel building plans with the idea of waiting for prices to go to the "bottom," as an active year in 1924 would mean that there would be no "bottom" for some time to come.

#### *Possible Prolonged Prosperity*

While all well informed business men admit the possibility of a moderate business recession before the end of the year, nevertheless it would seem that those engaged in the building industry are the "pinch hitters" who may be able largely to prevent this threatened slump. If our present building activity proceeds to fall down, the ensuing business recession will considerably decrease our prosperity until we can gather ourselves together for a fresh start, but if the building industry is able to tide us over into 1924 we may then find that a settlement of European social and political questions will make possible the sale of large amounts of foreign securities to American investors, and the proceeds of the sale of these securities would be used

by Europe for the purchase of American goods. Such a development would prolong our prosperity for some time to come, because of the manufactured goods that would be shipped to foreign shores and because of the increased purchasing power of the grain growing sections of our country that would follow the increased demand for agricultural products on the part of the people across the sea.

Upon the intelligence, team work, and vision of American builders now depends the immediate continued prosperity of the nation.

### CONTRACTORS' OVERHEAD

Its Disregard Leads to Bankruptcy

BY GERHARDT F. MEYNE

*Vice Pres., Assoc. Bldg. Contractors of  
Illinois*

**A**SIDE from the actual construction of the building, the preparation of estimates is, of course, one of the most important functions in the contractors' business, although sometimes it is merely looked upon as a necessary evil. Builders who make the mistake in considering that estimating is a necessary evil overlook the fact that it is a most important factor toward making the business a success or a failure.

#### *Listing Materials*

It is needless to say that proper listing

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of materials is essential. The methods used by so many builders in lump estimates is a very serious mistake, and usually ends up with a contractor going to the "great beyond" without leaving any visible means of support for his family, after a life of slavery.

#### *Surety Bonds*

Managers of bonding companies are very careful to scrutinize business methods of a contractor or building corporation before they are willing to furnish a surety bond. It is not often that the very responsible builder with a good reputation and long record of fair dealings is requested to furnish a bond. Architects, engineers, material dealers and owners usually know something about the business methods of a contractor, and, therefore, the bonding companies are usually only asked to bond the low or irresponsible bidder.

The first question the companies must have answered is something about the builder requesting the bond; whether or not he understands his business thoroughly—whether or not he is capable of preparing a correct estimate himself. They also ask about the figures of his estimator or other help, and if the builder is competent to check them and has good judgment.

In the second place, the bonding company is most anxious to know about the general reputation of the builder, his honesty in meeting his financial obligations and his reputation among those with whom he does business, such as sub-contractors and material men, and how he stands with his colleagues in the business.

Thirdly, one of the prime requisites of a builder when he requires a bond is, of course, his financial ability. Not only is his capital scrutinized, but his business efficiency and general executive ability. Needless to say, it creates a bad impression when builders appear in the office of the bonding company with their figures on the back of an envelope. Probably they have cubed a job, or worse yet, have taken some figures that some architect or owner has told them they could get the job done for. Needless to say, the man with a good appearing sheet, his items all properly itemized, showing that the plans and specifications have been carefully surveyed, will have considerably less trouble to be bonded than the sloth.

#### *Complete Cost*

The item of overhead expense is one that has long been neglected by the smaller builders, but it is an item of such considerable importance that it should have the most careful consideration of every builder, little or big. I caution and admonish, as well as counsel, advise and command, that out of every building operation undertaken you get back in

money at least the actual cost of its complete production plus the overhead.

#### *Profit*

The item of profit is one which your own avariciousness demands, or the competition of colleagues permits, or your conscience will allow you to take, but you are at least entitled to all the money you put into an operation. This money, as previously stated, is the cost of labor and materials, permits, liability insurance, bonds, owners' contingency insurance, fire insurance, miscellaneous contingency, such as cutting for other trades, removing of debris, field overhead and general overhead.

#### *Explanation of Overhead*

I will come directly to the explanation of what I mean by field overhead and general or administrative overhead. When the estimate has been made and after the cost of the building has been totaled, a certain percentage for overhead should be allowed. This is sometimes called the cost of doing business. This percentage is calculated in various ways, but it is usually determined by each contractor according to the size of his operations and personal efforts.

#### *Administrative Overhead*

Administrative overhead or expense is that charge which cannot be directly charged to a project or job, and should be again divided into two classes; fixed office expense and miscellaneous expense. Fixed office expense consists of salaries to executives (meaning that the builder should put himself on the payroll), estimators and clerks, rents, plant depreciation, furniture and fixture depreciation, interest on equipment, cost keeping and the helpers involved therein, bookkeeping and its involved cost, yard men and tool men. Miscellaneous expense is, of course, invisible, and is usually composed of stationery, billheads, advertising, interest on borrowed money, office supplies, telephone, telegraph, postage, business travel, automobile upkeep, taxi fares, charity, business insurance, legal expense, tool and equipment maintenance, team account, etc.

#### *Field Overhead*

Field overhead, as I regard it, should also be divided into two classes—non-productive labor and its kindred expense and such invisible overhead as accrues on the job whether or not. Sometimes it cannot be avoided, no matter how much endeavor or effort the builder may put forth to stop it.

#### *First Class of Field Overhead*

Coming back to field overhead of the first class, which we shall call the non-productive field labor overhead, this is

(Continued on page 368)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Store Building**, Second and Spring Garden streets, Philadelphia. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, L. Zeff, on premises. Brick, limestone and marble, 2 stories and basement, 16x111 feet, tile and slag roof, maple floors, steam heat, electric light, tile work, flush bulks. Plans in progress. Architect ready for bids in two weeks.

**Stores (2), Apartments (3) and Garage**, Twentieth and Limekiln Pike, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, irregular size, slag roof, hardwood and cement floors, hot water heat, electric light, tile work. Plans in progress. Architect ready for bids in one week.

**Stores (6) and Garage**, Limekiln Pike, Church Lane and Ogontz avenue, Philadelphia, Pa. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, name withheld. Brick, 1 story, 100x160 feet, irregular, slag roof, pine and cement floors, metal ceilings, flush bulks, plate glass, structural steel, steam heat, electric light. Architect ready for bids in one week.

**Residence (alts.)**, 228 Rex avenue, Philadelphia. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Currie, care of architect. General alterations. Plans in progress. Ready for bids in a few days.

**Apartment House (alts. and add.)**, 5864 Hadfield avenue, Philadelphia. Architect, E. B. Medoff, Lincoln Building, Philadelphia. Owner, Jacob Medoff, on premises. Three stories. Brick and stone. Plans in progress.

**Bath House (alts. and add.)**, 211 Vine street, Philadelphia. Architect, E. B. Medoff, Lincoln Building, Philadelphia. Owner, S. Goodman, on premises. Brick, 3 stories. Plans completed.

**Residences (6)**, 659-671 West Kingsley avenue, Germantown, Philadelphia. Architect, A. H. Savery, 1309 Locust street, Philadelphia. Owner, Thomas P. Rittenhouse, 655 West Kingsley street, Philadelphia. Stone, brick, 2½ stories, 18x40 feet, hot water heat, electric light, slate and slag, hardwood and pine floors, garages in basement. Owner ready for sub-bids in a few days.

**School Building**, Torresdale, Wakeling, Dittman and Margaret streets, Philadelphia.

Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, steel, cut stone, 3 stories and basement, 290x182 feet (plumbing, heating and electric separate), composition roof, mastic asphalt cement floors, metal lath, hollow tile, marble and terrazzo work, safety treads, rolled steel sash, hollow metal doors, cold water painting, waterproofing, iron stairs and ornamental iron work. Owners taking bids due June 7th at noon (daylight).

**Home**, Franklin and Girard avenue, Philadelphia. Engineers and architects, Martindale Brumby Co., 10 South Eighteenth street, Philadelphia. Owners, Home for Aged Jews, Franklin and Girard avenue, Philadelphia. Brick, cut stone and steel, 3 stories and basement, 50x98 feet, steam heat, electric light, slag roof, cement and yellow pine floors, metal lath, ornamental iron work. Architects and engineers taking sub-bids due as soon as possible.

**Apartment House**, Forty-second street above Baltimore avenue, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Emanuel Zinn, 831 Cherry street, Philadelphia. Brick, concrete and steel, 3 stories and basement, 119x55 feet, slag roof, oak and pine floors, terra cotta, iron work, central heating, electric lighting, iron work. Architect taking bids due as soon as possible.

**Residence**, South side Fry street, East of Shaleop street, Philadelphia. Architect, private plans. Owner, E. A. Linquist, 1442 North Hobart street, Philadelphia. Stone or frame, 2 stories, 26x28 feet, shingle roof, hardwood and pine floors, steam or hot water heat, electric lighting. Ira K. Shayer, Ridgewood Realty Co., 8103 Ridge avenue, taking sub-bids due as soon as possible.

**Recreation Building**, Berks and Blair streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Barclay W. Warburton, Director, 595 City Hall. Low bidders: Bowden Const. Co., 1935 Chestnut street, \$84,884; Murphy Quigley Co., 1524 Sansom street, Philadelphia, \$91,700. Plumbing, Philadelphia Steam Heating Co., 3318 Lancaster avenue, \$6,395. Electric, Electro

Const. Co., Commercial Trust Building, \$3,590.

**Residence**, 401 East Mt. Pleasant avenue, Philadelphia, \$22,500. Architect, private plans. Owner, A. S. Tourison, Jr., 7014 Boyer street, Philadelphia. Stone, 3 stories, 44x28 feet, 2 stories, 17x29 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will build.

**Residences (68), (9)** 2701-17 West Allegheny avenue, (10) 2715-33 West Willard street, (49) 3211-63 and 3210-52 North Etting street; total, \$426,500. Architect, private plans. Owner, Morris L. Miller, Allegheny avenue and Etting street, Philadelphia. Brick, 2 stories, (2) 16x50 feet, (17) 15x36 feet, 10x14 feet, (49) 14x34 feet, 10x12 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Apartment House (add. and alts.)**, 324-26 South Eleventh street, Philadelphia, \$50,000. Architects, J. L. Stetler and H. Deysher, 1584 North Fifty-second street, Philadelphia. Owner, Otto F. Steger, 138 South Forty-sixth street, Philadelphia. Brick, 4 stories, 6x6 feet 6 inches, 19x11 feet 6 inches. Owner will build.

**Residences (16)**, Sixth and Nedro avenue, and Sixth and Widener Place, Philadelphia, \$82,800. Owners, Britsch & Clayton, 5521 North Seventh street, Philadelphia. Brick, 2 stories, 15x49 feet, 17x49 feet and 16x46 feet, slag roof, hot water heat, electric light. Owners will build.

**Service Station**, Southwest Corner Forty-first and Walnut streets, Philadelphia, \$15,000. Architect, private plans. Owners, Gulf Refining Co., 516 Widener Building, Philadelphia. Brick, 1 story, 20x30 feet, cement work, tile work, electric lighting. Owners will build.

**Residences (9)**, West side Ardleigh street, North of Highland avenue, \$41,000. Architect, private plans. Owner, Jacob L. Brown, 325 South Fifth street, Philadelphia. Brick, 2 stories, (1) 17x40 feet, (8) 16x31 feet, 13x9 feet, hot water heat, electric light. Owner will build.

**Car Barn (alts. and add.)**, Southwest Corner Twenty-sixth and Allegheny avenue, \$40,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 820 Dauphin street, Philadelphia. Concrete and steel, 1 story add., 33x166 feet, general alterations. Owners will build.

**Engine and Pump House**, South side Passunk avenue, West of Schuylkill, \$12,000. Architect, private plans. Owners, Atlantic Refining Co., 3144 Passunk avenue, Philadelphia. Steel and asbestos, 1 story, 70x40 feet, cement floors. Owner will build.

**Residence**, Southeast Corner Lawndale and St. Vincent streets, \$5,000. Architect, private plans. Owner, Gus Weber, 7251 Lawndale avenue, Philadelphia. Brick and frame, 2 stories, 16x48 feet, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (2)**, 722-24 Oakley street, Philadelphia, \$4,000 each. Architect, private

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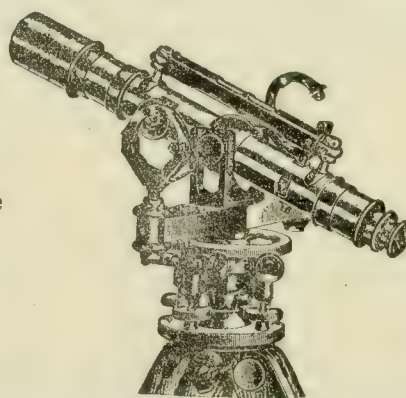
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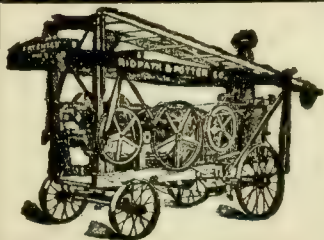
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plans. Owner, Joseph O'Vary, 1728 North Third street, Philadelphia. Brick, frame, 2 stories, 15x34 feet, and 1 story, 15x8 feet, hot water heat, electric light. Owner will build.

**Residence**, East side Claridge street, South of Faunce street, \$6,000. Architect, private plans. Owner, Charles Fleischman, Fox Chase, Philadelphia. Frame and stucco, 1 story, 32x48 feet, hardwood and pine floors, electric work. Owner will build.

**Residence and Stores (6) (alts.)**, 1702-04-04½ North Seventh street, 701-03-05 West Columbia avenue, Philadelphia, \$6,000. Architect, private plans. Owner, M. S. Haisfield, 4561 North Marvine street, Philadelphia. General alterations. Owner will build.

**Garage and Storage**, 532-534 Rising Sun avenue, Philadelphia, \$5,000. Architect, private plans. Owner, Frank Caputi, 530 Rising Sun avenue, Philadelphia. Brick, 2 stories, 38x38 feet, 15x16 feet, slag roof, cement floors. Owner will build.

**Stack**, West side Forty-third street, South of Woodland avenue, \$3,500. Architects, William F. Koelle Co., 2601 Oxford street, Philadelphia. Owners, Breyer Ice Cream Co., Eighth and Cumberland streets, Philadelphia. Brick, 125 feet high. Architects will build.

**Boiler and Engine Room (add.)**, 2203-09 North Third street, Philadelphia, \$3,000. Owners, Enterprise Mfg. Co., Third and Dauphin streets, Philadelphia. Brick, 1 story, 24x56 feet, slag roof, cement floors, electric work. Owners will build.

**Garage**, South side Warren street, West of Fifty-first street, Philadelphia, \$3,000. Architect, private plans. Owners, Selmi Brothers, 1337 North Fifty-second street, Philadelphia. Brick, 1 story, irregular shape, slag roof, cement floors. Owner will build.

**Garage**, 4652-56 Canton st., (rear), Philadelphia, \$2,500. Architect, private plans. Owner, Philip Damore, on premises. Stone, 1 story, 18x51 feet, cement floors, electric lighting. Owner will build.

**Garage**, Southeast Corner Reese and Wingo-hocking streets, Philadelphia, \$2,000. Architect, private plans. Owner, Edward B. Miller, 3935 North Marshall street, Philadelphia. Brick, 1 story, 15x60 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residence (add.)**, 2011 Bainbridge street, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, Mrs. C. Johnson, 2011 Bainbridge street, Philadelphia. Brick, 3 stories, rear add. 13x14 feet, slag roof, pine floors, heating and lighting extension. Architects taking bids due June 8th.

**Apartment and Store Building**, Southwest Corner Wayne and Chelton avenues, Germantown, \$100,000. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Brick, stone, steel, concrete, lime-

stone and terra cotta, 12 stories, 200x100 feet, slag roof, electric work, hardwood floors, elevators, roof ventilators, iron work, fire doors, tile and marble work, metal lath, steam heat. Plans in progress.

**Garage and Apartment (alts. and add.)**, 1508 Kater street, Philadelphia. Architect, C. H. Wilson, 2028 Berks street, Philadelphia. Owner, name withheld. Reinforced concrete, tapestry brick, bluestone, 2 stories, 18x36 feet, slag roof, cement, pine and composition floors, hot water heat, electric light, metal lath, rolled steel sash, waterproofing, kitchen equipment, metal cornice. Architect ready for bids in a few days due June 11th.

**Church and Parsonage**, Twenty-second street, between Massau and Bolton streets, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owners, Miller Memorial Baptist Church, care of Rev. Wilkens E. Jones, 2107 Master street, Philadelphia. Stone, 1 and 2 stories, size of lot 80x95 feet. Plans completed. Architect ready for bids in ten days.

**Building (alts. and add.)**, Tackawanna and Orthodox streets, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, The Workmen's Realty & Dev. Co., Inc. (meeting place), on premises. New brick, add. 2 stories, rear add. 13x14 feet, slag roof, pine floors, heating and lighting extensions. Architects taking bids due June 11th.

**Store and Office (alts. and add.)**, Southwest Corner Nineteenth and Arch streets, Philadelphia. Architect, David Levy, Real Estate Trust Building, Philadelphia. Owner, name withheld. Brick, 1 story, 20x27 feet, slag roof, electric light, metal ceilings, flush bulks, marble work, steam heat. Plans in progress.

**Stores (alts. and add.)**, Northwest Corner Fifty-ninth and Market streets, Philadelphia. Architect, David Levy, Real Estate Trust Building, Philadelphia. Owner, name withheld. Brick, 1 story add., 48x50 feet, slag roof, cement and pine floors, plastering, stucco work, metal ceiling, plate glass, steam heat, electric light, macite partitions. Plans in progress.

**Store (alts.)**, 726-28 Market street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Emma Schwehn, care of architect. Architect taking revised bids due as soon as possible.

**Apartment House (alts. and add.)**, 182-84 Huntingdon street, Philadelphia. Architects, R. R. Neely and William Martin, 2301 Spruce street, Philadelphia. Owner, M. B. Orlowitz, 2556 Kensington avenue, Philadelphia. Interior alterations, brick add., 3 stories, 15x30 feet, slag roof, pine and composition floors, steam heat, electric light, plumbing, general paving. Architect taking bids.

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## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Manufacturing Building**, Torresdale avenue and M street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Largeman Gray Co., 3360 Frankford avenue, Philadelphia. Brick, reinforced concrete and steel, Rosier Mill, 4 stories, 240x85 feet, boiler house, garage and dyehouse, 1 story, 90x120 feet, slag roof, cement floors, waterproofing and dampproofing, iron work, floor hardener (electric work, heating and plumbing reserved), tin-clad doors, rolled steel sash and skylights. Contract awarded on general to Nelson Pedley, 1615 Spruce street. Heating, Bowers Brothers, 1629 Ludlow street, Philadelphia. Plumbing, L. J. Somers & Son, 2436 Brown street, Philadelphia. Elevators, Otis Elevator Co., Otis Building, Philadelphia. Electric, C. S. Rice Electric Co., 537 North Eighth street, Philadelphia.

**Office Building**, 125 to 129 South Fifth street, Philadelphia, \$159,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owners, United States Fidelity & Guaranty Co., care of J. Kent Kane, 315 Walnut street, Philadelphia. Brick, cut stone, reinforced concrete and steel, 4 stories and basement, 95x54 feet, asphalt and gravel roof, cement and pine floors, roof ventilators, metal window guards, dampproofing, iron work and stairs, bond, elevator, kalamain doors, rolled steel skylights, tile, marble and terrazzo work, metal lath, steam heat, electric lighting. Contract awarded to J. S. Rodgers Co., Drexel Building, Philadelphia.

**Moving Picture Theatre**, 2217-19 South street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, Mayer Milgram, care of architect. Brick, cut stone, architectural terra cotta and concrete, 1 story and mezzanine, 47x154 feet, slag roof, composition and oak floors, tile work, hollow metal sash, fire doors (heating, lighting, plumbing and interior decorating reserved). Contract awarded to Charles Litman, 2438 South Fourth street, Philadelphia.

**Building (alts. and add.)**, 24 South Second street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, H. Meilachowitz, on premises. New brick front, slag and tin roof, oak and pine floors, painting, glazing, hardware, metal ceilings, dampproofing, hot water heating, iron work, bond, rolled steel sash, electric light, metal lath, plastering, plumbing. Contract awarded to Smith Hardican Co., 1809 Callowhill street.

**Store (alts.)**, 2801 Kensington avenue,

Philadelphia, Pa. Architect, Paul Livingstone Boyd, 6943 Limekiln Pike, Philadelphia. Owner, B. McGuigan, 2801 Kensington avenue, Philadelphia. New wood floor, new bulk windows, structural steel, metal ceiling, galvanized iron work. Contract awarded to Ludwig Alt, 2007 Carlton street, Philadelphia.

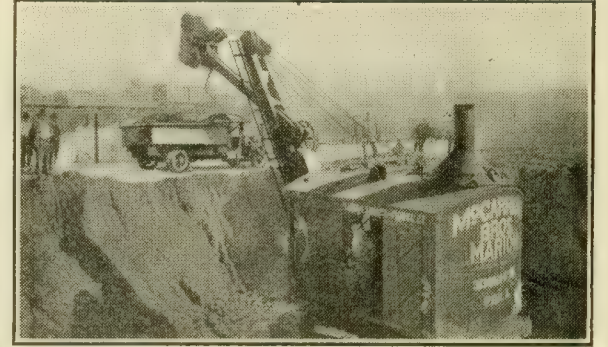
**Garage**, rear of 559 Roosevelt Boulevard, Philadelphia. Architect, Paul Livingstone Boyd, 6943 Limekiln Pike, Philadelphia. Owner, Alex. McBain, 559 Roosevelt Boulevard, Philadelphia, Pa. Brick and stucco, 1 story, 15 feet 6 inches x 18 feet 9 inches, reinforced concrete, roof, wood balustrade, folding doors. Contract awarded to George A. Boyd, 5701 North Sixth street, Philadelphia.

**Residence (alts.)**, 2107 Delancey street, Philadelphia. Architects, Seaburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, R. C. Allen, 1415 Locust street, Philadelphia. Indiana limestone front, slag roof, oak floors, painting, glazing, carpentry, mill work, tile work, iron stairs and work. Contract awarded to Albert Zellfelder, 1324 Walnut street, Philadelphia.

**School (add.)**, Chestnut Hill, Philadelphia, \$32,000. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owners, Shady Hill Country Day School, Chestnut Hill, Pa. Stone, 1 story and basement, 40x80 feet (plumbing, heating and electric reserved), slate roof, yellow pine floors, tile work, bond, ornamental iron work. Contract awarded to W. C. Wright & Son, 22 Harvey street, Philadelphia.

**Building (new front and rear add.)**, Northwest Corner Twenty-second and Sansom streets, \$15,000. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Charles F. Kellar, 212 South Seventeenth street, Philadelphia. Limestone and brick, 23x33 feet, hot water heating, metal lath, slag roof, oak and yellow pine, plumbing, ornamental iron work. Contract awarded to H. E. Grau Co., 1709 Sansom street, Philadelphia.

**Store (alts.)**, 35 South Fifty-second street, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Benjamin S. Beerwald, on premises. New front, rearranging interior. Contract awarded to S. C. Campbell, 1309 Vine street, Philadelphia.



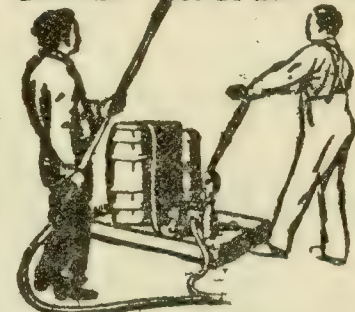
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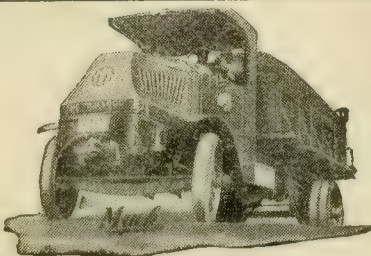
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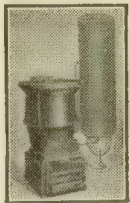
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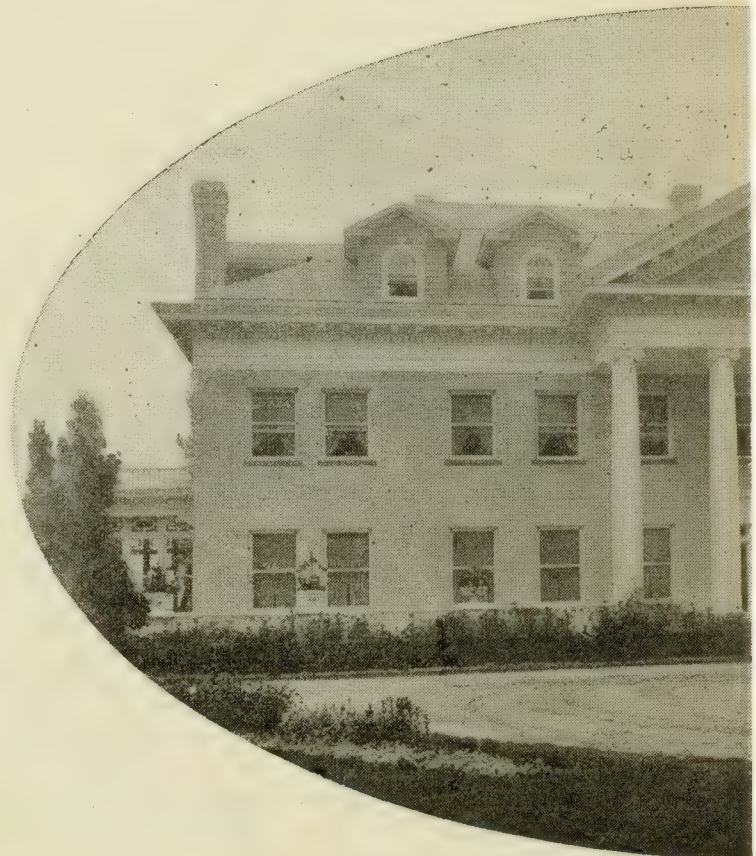
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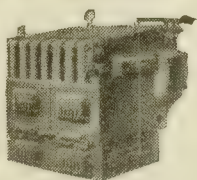
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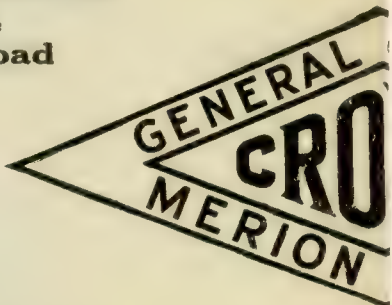
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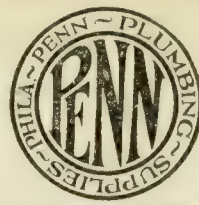
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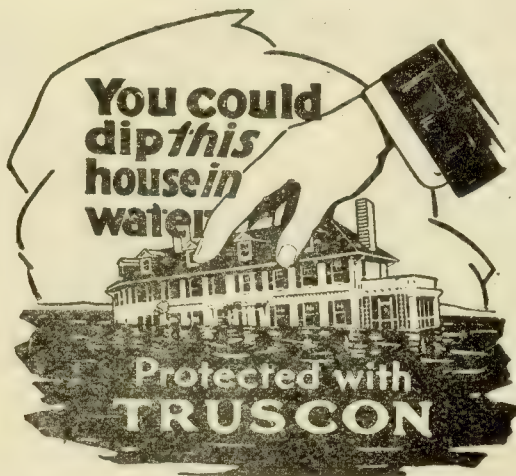
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**Boiler House**, 4420-23 Paul street, Philadelphia, \$11,200. Architect, Edward J. Schoppe, 315 South Fifteenth street, Philadelphia. Owners, La France Textile Co., 4423 Frankford avenue, Philadelphia. Brick, 1 story, 33x36 feet, steel reinforced roof, cement floors, rolled steel sash, radial brick chimney, 70 feet high. Contract awarded to John F. Davies, 1021 Herbert street, Philadelphia.

**Residence (add.)**, 1722 South Broad street, Philadelphia, \$2,500. Architect, D. J. Pappano, Thirteenth and Reed streets, Philadelphia. Owner, Dr. Anthony Bore, on premises. Brick, 1 story, 14x18 feet, 24x29 feet, quarry, tile roof, plumbing, electric work, alterations to heating. Contract awarded to Joseph Palamore, 2217 South Thirteenth street, Philadelphia.

**Residences**, 6402 to 6412 Beaumont avenue, Philadelphia, \$72,000. Architect, private plans. Owner, A. B. Knecht, 7101 Gray's avenue, Philadelphia. Brick, 3 stories, 20x39 feet, slag roof, hot water heat, electric light, tile work, hardwood floors. Contract awarded to S. B. Brooks, 2232 South Seventieth street, Philadelphia.

**Residence and Store**, 3926 Market street, Philadelphia, \$12,000. Architect, J. T. Bradley, 1121 Fillmore street, Philadelphia. Owner, M. J. Callahan, 3924 Market street, Philadelphia. Brick, 2 stories, 19x67 feet, slag roof, hardwood and pine floors, steam heat, electric light tile work. Contract awarded

to E. S. Collins, 325 Budd street, Philadelphia.

**Garage**, South side Upland street, East of Bonaffon street, \$6,700. Architect, private plans. Owner, John Manning, Southwest Corner Sixty-seventh and Yocum streets, Philadelphia. Brick, 1 story, 38x74 feet, 42x16 feet, slag roof, cement floors. Contract awarded to Charles H. Wilson, 2022 South Sixty-sixth street, Philadelphia.

**Residence**, Northeast Corner Second and Wyoming avenue, Philadelphia, \$6,500. Architect, private plans. Owner, Edward Mallon, 836 East Clearfield street, Philadelphia. Brick, 2 stories, 16x34 feet, 11x11 feet, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to U. S. Hunsberger, 427 Chew street, Philadelphia.

**Residence**, East side Claridge street, South of Faunce street, \$6,000. Architect, private plans. Owner, Mrs. Rose Nerweiler, 107 Park avenue, Rockledge, Pa. Frame and stucco, 1 story, 32x48 feet, oak and pine floors. Contract awarded to C. Fleischman, Fox Chase, Philadelphia.

**Bank (alts.)**, 605 Chestnut street, Philadelphia, \$8,000. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, United Security Co., 605 Chestnut street, Philadelphia. Carpentry, mill work, metal lath, plastering, painting, glazing, iron and steel. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

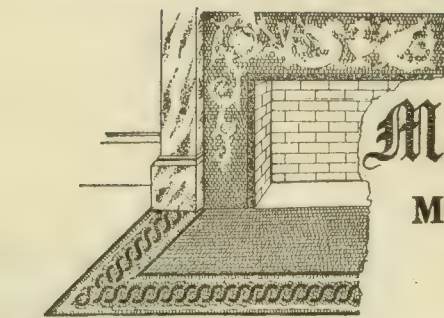
**Residence and Store (alts. and add.)**, 2135 North Sixth street, \$5,000. Architect, private plans. Owner, A. H. Rauch, on premises. Brick, 2 stories, 12x36 feet, general alterations. Contract awarded to N. Epstein, 2221 North Front street, Philadelphia.

**Bank (alts.)**, Southeast Corner Broad and Airdrie streets, \$3,000. Architect, private plans. Owners, North Philadelphia Trust Company, on premises. General alterations, carpentry, mill work, plastering. Contract awarded to A. Raymond Raff, 1635 Thompson street.

**Store and Storage (add.)**, 6224 Germantown avenue, \$2,800. Architect, private plans. Owners, Hotchkiss & Nonnerman, 6220 Germantown avenue. Stone and brick, 2 stories, 18½x16 feet, pine and cement floors. Contract awarded to William C. Wright & Son, 22 Harvey street.

**Garage**, Southeast Corner Franklin and Chew streets, Philadelphia, \$5,100. Architect, private plans. Owner, M. Roomet, 5627 North Seventh street, Philadelphia. Brick, 1 story, 13x26x108 feet, slag roof, cement floors. Contract awarded to George Good, Adams Road, Olney, Philadelphia.

**Garages (5)**, 6402-06-08-10-12 Beaumont street, \$4,000 total. Architect, private plans. Owner, A. B. Knecht, 7101 Gray's avenue, Philadelphia. Brick, 1 story, 10x18 feet, slag roof, cement floors. Contract awarded to S.



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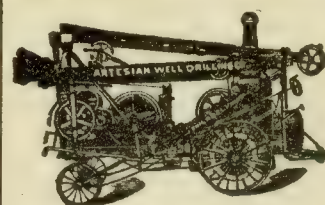
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H. Brooks, 2232 South Seventieth street, Philadelphia.

**Residences (2)**, 813-15 Fanshawe street, Philadelphia, \$4,000 each. Architect, private plans. Owner, Darby Mitchell, 3258 North Sixth street, Philadelphia. Frame, 2 stories, 16x43 feet, electric lighting. Contract awarded to O. J. Kelly, 3445 North Sixth street, Philadelphia.

**Store and Shop (alts.)**, 1729-31 Sansom street, Philadelphia, \$15,000. Architect, private plans. Owner, Charles H. Robbins, 1209 Arch street, Philadelphia. New brick front, steam heat, concrete, composition floors, general interior alterations. Contract awarded to A. Zellfelder, 1324 Walnut street.

**Residences (2)**, Cottman street, 904 and 906, \$4,500 each. Architect, private plans. Owners, S. Diringer & Son, Burholme, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heat, electric work. Contract awarded to Y. Diringer, 7249 Rising Sun avenue.

**Garage**, West side Edgemont street, North of Lefevre street, \$4,200. Architect, private plans. Owner, J. L. Metzger, 4511 Thompson street, Philadelphia. Brick, 1 story, 38x18 feet, 19x77 feet, slag roof, cement floor. Contract awarded to Louis Ahler, Jr., 4433 Salmon street.

**Storage Building**, Northwest Corner Hartel and Jackson streets, \$3,100. Architect, private plans. Owner, Samuel Stokes, Holmesburg Junction, Philadelphia. Iron, 1 story, 38x60 feet, corrugated iron roof, cement floor. Contract awarded to M. Moister & Co., 3931 North Fifth street.

**Loft Building (add.)**, 220 North Thirteenth street, Philadelphia, \$10,000. Architect, private plans. Owner, John R. K. Scott, Lincoln Building, Philadelphia. Brick, 2 stories add., 17x78½ feet, slag roof, cement and pine floors. Contract awarded to H. Slavitt, 5136 Haverford avenue, Philadelphia.

**Residence and Store**, 911-13 East Passyunk avenue, Philadelphia, \$7,500. Architect, private plans. Owner, Joseph Binestook, Southwest Corner Passyunk avenue and Christian street, Philadelphia. Brick, 3 stories, 20x36 feet, 14x18 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Frank R. Bilotta, Southeast Corner Seventh and Christian streets.

**Garage (add.)**, Northwest Corner Thirty-fourth and Brandywine streets, \$5,400. Architect, private plans. Owner, Ralph Kennedy, 3407 Brandywine street, Philadelphia. Brick, 1 story add., 82x34 feet, slag roof,

electric work. Contract awarded to Cecil Hodgins, 4610 "D" street, Philadelphia.

**Residences (17)**, West side Hollbrook street, South of Glenwood avenue, \$4,000 each. Architect, private plans. Owner, Frederick Furnival, 2700 South Seventh street, Philadelphia. Brick, 2 stories, 14x32 feet, 6x10 feet, hot water heat, electric lighting, oak and pine floors. Contract awarded to George A. Furnival, 2409 South Twentieth street, Philadelphia.

**Residence**, South side Rhawn street, West of Leon street, \$3,000. Architect, private plans. Owner, Amos Strahan, 8235 Craig street, Philadelphia. Brick and frame, 2 stories, 16x40 feet, electric work. Contract awarded to Charles Burchett, 10 North Sixty-fourth street.

**Residence (add.)**, 659 North Fifty-third street, Philadelphia, \$2,000. Architect, private plans. Owner, Miss Tool, 659 North Fifty-third street, Philadelphia. Brick, 2 stories add., 12x8 feet, slag roof, electric work. Contract awarded to Samuel A. Rogers, 5312 Thompson street.

**Residence**, Northwest Corner Decatur and Cottage streets, Philadelphia, \$5,000. Architect, private plans. Owner, Fred J. McWade, 3209 Decatur street, Philadelphia. Brick, 1 story, 30x42 feet, hardwood floors, electric lighting, hot water heating. Contract awarded to A. W. J. Williams, Linden avenue, Torresdale, Philadelphia.

**Residence**, South side Aubrey street, East of Torresdale avenue, \$4,500. Architect, private plans. Owner, Edward Richerson, care of builder. Frame, 1 story, 27x38 feet, hardwood floors, hot water heating, electric lighting. Contract awarded to A. W. J. Williams, Linden avenue, Torresdale, Philadelphia.

**Residence**, East side Verree road, South of Oakmont avenue, \$4,500. Architect, private plans. Owner, C. Boshine, 3151 North Twentieth street, Philadelphia. Stone, 2 stories, 31x42 feet, slate roof, hardwood and pine floors, electric lighting. Contract awarded to Frank Cors, Limekiln Pike and Ogontz avenue, Philadelphia.

**Garage**, 508-12 North Sixty-first street, Philadelphia, \$3,300. Architect, private plans. Owner, Mary C. Brennan, 508 North Sixty-first street, Philadelphia. Brick, 1 story, 16x60 feet, cement floors, electric work. Contract awarded to Morris Hoffman, 4908 Brown street.

**Building (alts.)**, Southwest Corner Witte and Clearfield streets, \$3,000. Architect, private plans. Owners, Phoenix Dye Works, on premises. General alterations. Contract awarded to Wilson Ruff Co., Franklin Trust Building, Philadelphia.

**Residence and Store (alts.)**, 1901 North Nineteenth street, Philadelphia, \$3,000. **Residence and Store (alts.)**, 1800 Master street, Philadelphia, \$3,000. Architect, private plans. Owner, S. Silverman, 226 South Fourth street, Philadelphia. General alterations. Contract awarded to Dickinson Const. Co., 1120 Dickinson street.

**Club Room (alts.)**, Northwest Corner Thirteenth and Market streets, \$2,500. Architect, private plans. Owners, National Drug Co., on premises. General alterations. Contract awarded to Curtis, Grindrod Co., Fuller Building, Philadelphia.

**Residence (add.)**, 2828 Edgemont street, Philadelphia, \$2,500. Architect, private plans. Owner, Edward Romain, on premises. Brick, 2 stories add., 16x32 feet, electric lighting. Contract awarded to Harry Pace, 2650 East Somerset street.

**Garage**, Northwest Corner Shackamaxon street and Allen street, \$2,500. Architect, private plans. Owner, Philip Donahue, on premises. Brick, 1 story, 25x20 feet, slag roof, cement floor. Contract awarded to Robert Beatty & Bro., 2321 East Fletcher street.

**Building (alts.)**, 1530-32 South Lawrence street, Philadelphia, \$2,000. Architect, private plans. Owners, Mt. Sinai Hospital, on premises. Carpentry. Contract awarded to A. Bail, 621 Durfor street, Philadelphia.

## Pennsylvania Construction News

**Residences (17)**, Whitwood Park, Elkins Park, Pa. Architects, Andrew J. Sauer & Co., Denekla Building, Philadelphia. Owners, Whitewood Park Community Center, Elkins Park, Pa. Stone, hollow tile and stucco, various sizes, slate roof, steam heat, electric light, hardwood floors, tile and marble work. Working plans in progress, site to be cleared by July 8th. Architect taking bids on demolition due as soon as possible.

**Club House**, exact location withheld. Architects, Duckworth Brothers, Coal Exchange Building, Scranton, Pa. Owners, Veterans of Foreign Wars, care of architects. Brick and stone, 2 stories and basement, 150x150 feet. Preliminary plans in progress.

**Residence**, near Scranton, Pa., \$140,000. Architects, Duckworth Brothers, Coal Exchange Building, Scranton. Owner, name withheld. Stone and stucco, 3 stories, 110x83 feet. Preliminary plans in progress.

**Store and Apartments**, Main street, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Dr. Benjamin A. Tyler, Main street, Royersford,

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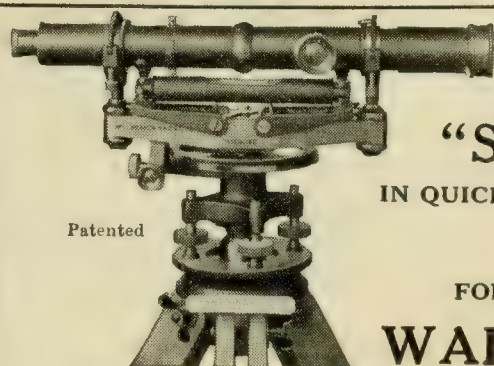
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**Laundry**, Lancaster, Pa. Architect, William P. Erisman, Woolworth Building, Lancaster, Pa. Owners, Eureka Laundry, 536 Locust street, Lancaster, Pa. Brick, steel, 2 stories, 40x100 feet, asphalt roof, concrete and pine floors, electric light, roof ventilators, rolled steel sash, fire doors. Plans in progress.

**Grade School**, Coatesville, Pa., \$50,000. Ar-

chitects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Coatesville School District, Coatesville, Pa. Architects selected. Too early for details.

**Elementary School Building**, Coatesville, Pa., \$200,000. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Coatesville School District, Coatesville, Pa. Architects selected. Too early for details.

**Convent (alts. and add.)**, Olyphant, Pa., \$45,000. Architects, Duckworth Brothers, Coal Exchange Building, Scranton, Pa. Owners, Holy Rosary Roman Catholic Church, care of Rev. Joseph J. Dulik, 120 Willow street, Olyphant, Pa. Brick, 2 stories, 45x75 feet. Architects ready for bids.

**Church (add.)**, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Trinity United Evangelical Church, Walnut street, Royersford, Pa. Brick, Indiana limestone, 1 story, tin roof, concrete floors, electric light. Plans in progress.

**Church and School**, Oil City, Pa. Architects, C. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, The Trinity Methodist Episcopal Church, Van Peters, Oil City, Pa. Stone, 1 and 2 stories, 120x130 feet. Drawing plans.

**Residence**, Glenside, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, A. Burston, 405 Mt. Carmel avenue, Glenside, Pa. Hollow tile and stucco, 2½ stories, 28x40 feet, shingle roof, pine and hardwood floors, electric light. Plans in progress.

**Church**, Osceola Mills, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owners, Immaculate Conception Church, Rev. M. J. Renahan, Osceola Mills, Pa. Brick, 1 story and basement, 112x62 feet, asbestos shingle roof, pine floors (heating, plumbing, electric work reserved), metal lath, tile and marble work, kitchen equipment for basement. Plans in progress.

**Church**, Morrisdale, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owners, St. Agnes' Roman Catholic Church, Rev. E. J. Fischer, Morrisdale. Brick, 1 story and basement, 42x86 feet, asbestos shingle roof, pine floors, vapor heat, electric light, tile and marble work, metal lath, church equipment. Plans in progress.

**Residence and Garage**, Merion, Pa., \$55,000. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, Philip A. Castner, Merion, Pa. Brick and half timber, 2½ stories, vapor heating, electric lighting, hardwood floors. Plans in progress. Too early for details.

**Chapel (int. alts.)**, James and College avenue, Lancaster, Pa. Owners, Reformed Theo-

logical Seminary, care of Dr. G. W. Richards, Lancaster, Pa. Stone, 1 story. Zantzinger, Borie & Medary, Otis Building, Philadelphia, drawing preliminary plans.

**Residence (alts.)**, Sycamore Mills, near Media, Pa. Architect, R. Brognard Okie, Crozier Building, Philadelphia. Owner, Charles I. Hart, Wallingsford, Pa. General alterations. Plans in progress.

**Garage**, Forty Fort, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame and stucco, 1 story, 40x60 feet, slate and shingle roof, steam heat, electric light, concrete floors. Plans in progress.

**Store and Apartment (alts. and add.)**, Washington street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2 stories, 18x50 feet, 20x30 feet, in-aid slate roof, pine floors, steam heat, electric light, metal lath, tile and marble work, metal ceilings. Plans in progress.

**Apartment House**, Bala, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, Mrs. C. W. Kendricks, Bala, Pa. Stone and stucco, 3 stories and basement, 25x35 feet, slag roof, composition floors (heating and lighting extensions). Architect ready for bids.

**Rebuilding Knitting Mill**, First avenue, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, E-Cut Knitting Co., First avenue, Royersford, Pa. Brick, 4 stories, 50x200 feet, maple floors, electric light, (2) elevators, metal lath, ventilators, metal sash. Architect taking sub-bids.

**Warehouse**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Block Brothers, rear 419 North Prince street, Lancaster, Pa. Fireproof mill construction, 4 stories, 36x90 feet, 36x36 feet, slag roof, maple floors, electric light, rolled steel sash, fire doors. Architect ready for bids.

**Residences (3)**, Lancaster, Pa. Architect, William P. Erisman, Woolworth Building, Lancaster, Pa. Owner, M. D. Halpern, Chestnut and Eleventh streets, Lancaster, Pa. Brick, 2 stories, 16x40 feet, asphalt roof, pine floors, pipeless heat, electric light. Owner is building.

**Residence**, Scranton, Pa. Architects, Duckworth Brothers, Coal Exchange Building, Scranton, Pa. Owner, name withheld. Frame, 2½ stories, 65x40 feet. Architects will be ready for bids about June 15th.

**Store and Apartment**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, L. Miller, 747 East Third street, Bethlehem, Pa. Brick, cinder block, 2 stories, 32x80 feet, slag roof,

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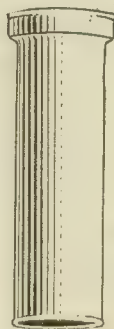
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**Store Buildings (alts.)**, Shamokin, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, C. C. Leader & Son, Shamokin, Pa. Castone front, 3 stories, plastering, built-up roof, parquetry and tile floors, ornamental plastering, iron work. Owner ready for bids.

**Residence**, Lincoln Highway, Lancaster, Pa. Architect, William P. Erisman, Woolworth Building, Lancaster, Pa. Owner, M. B. Brenner, Lancaster, Pa. Cinder block and stucco, 2½ stories, 30x40 feet, shingle roof, maple floors, electric light, tile work. M. E. Brenner, 45 North Duke street, Lancaster, Pa., taking bids.

**School (add.)**, Nicholas street, Wilkes-Barre, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Township School Board, J. Finn, secretary, Wilkes-Barre, Pa. Frame, brick, 2 rooms, slag roof, pine floors (heating, plumbing and electric work reserved). Owner will take bids next week.

**Residence**, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, F. Malloy, 35 Airey street, Wilkes-Barre, Pa. Hollow tile and stucco, 2½ stories, 32x36 feet, asbestos shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Architect about ready for bids.

**School**, Pittston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Pittston School Board, J. Callahan, secretary, Pittston. Brick, 2 stories, 6 rooms (heating, electric work and plumbing reserved), slag roof, maple floors, hollow tile, metal lath, roof ventilators, rolled steel skylights. Owner will take bids in two weeks.

**Residence**, Freeland, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, James Brogan, Freeland, Pa. Frame and stucco, 2 stories, 30x36 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Owner will take bids.

**Orphanage**, Orwigsburg, Schuylkill County, Pa. Architect, Paul Monaghan, Presser Building, Philadelphia. Owners, St. Francis' Orphans' Asylum, on premises. Brick, cut stone, steel and reinforced concrete, 3 stories and basement, 270x72, wing 86x55 feet, 40x51 feet, slate composition, promenade tile roof, cement, oak and maple floors, metal lath, rolled steel sash and skylights, roof ventilators, waterproofing, bond, iron stairs and ornamental iron work (heating, plumbing, electric elevators, kitchen equipment, bakery and laundry equipment reserved). Architect taking bids due June 15th.

**Post Office (alts.)**, Lock Haven, Pa. Architect, James A. Wetmore, Acting Supervising Architect, Treasury Department, Washington, D. C. Owners, Treasury Department, Washington, D. C. Painting, plastering. Architect taking bids due June 15th at 2 P. M. Specifications may be obtained from the Custodian or at the Supervising Architect's Office, in the discretion of the Supervising Architect.

**Bank (alts. and add.)**, Elizabethtown, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Elizabethtown

National Bank, care of architect. Brick, 2 stories, irregular size, slag roof, pine floors, hot water heat, electric light, bank fixtures. Owners taking bids.

**Power House**, Villa Marie, West Chester, Pa. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, I. H. M. Sisters, Villa Marie, West Chester, Pa. Brick, steel and cut stone, 1 story, 40x50 feet, monitor, slate roof, cement floor, rolled steel sash and skylights, bond, ornamental iron work. Architect taking bids due June 11th.

**Aeroplane Hangars**, Middletown, Pa. Architect, private plans. Owners, Constructing Q. M., U. S. Army, Middletown Air Intermediate Depot, Middletown, Pa. Owners taking bids due June 11th at 11 A. M. For further information apply to Constructing Q. M., Edgewood Arsenal, Md.

**Residence**, Scranton, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owner, Dr. G. F. Dean, 905 Woodlawn avenue, Scranton, Pa. Frame and stucco, 2½ stories, 32x41 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Owner taking bids due June 15th.

**Apartment and Store**, Scranton, Pa. Architect, A. J. Ward, Scranton, Pa. Owner, Anna Dougherty, 817 Hemlock street, Scranton, Pa. Frame, 2 stories and basement, 37x43 feet, slag roof, pine floors, steam heat, electric light, copper work, metal ceilings, ornamental iron work. Architect taking revised bids due as soon as possible.

**School**, Whitehall Township, Lehigh County, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, School Board, Mr. Heilman, secretary, Allentown, Pa. Brick, 2 stories, 12 rooms, composition roof, hardwood floors (heating, electric work and plumbing reserved), metal lath, hollow tile, safety treads, roof ventilators. Architects taking bids due June 7th.

**High School**, Plymouth, Pa. Architect, Lewis Hancock, Mear Building, Scranton, Pa. Owners, Plymouth School Board, Plymouth, Pa. Brick, cut stone, steel, 2 stories and basement, 88x147 feet (plumbing, heating, electric work reserved), yellow pine floors, metal lath, hollow tile, rolled steel sash, hollow metal doors, bond, waterproofing, ornamental iron work. Owners taking bids due June 11th.

**Sunday School**, Wayne, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Wayne Presbyterian Church, Wayne, Pa. Stone, 2 stories, 52x121 feet

(plumbing, heating and electric reserved), slate roof, oak floors, metal lath, tile work, bond. Architect taking bids due June 12th.

**Garage and Apartment**, Plymouth, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Moore Auto Co., Plymouth, Pa. Semi-fireproof, tile, steel, 1 and 1½ stories, 40x120 feet, slag roof, concrete and hardwood floors (heating and plumbing reserved), electric light, metal lath, rolled steel sash, galvanized iron skylights. Architect taking bids due as soon as possible.

**Warehouse**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre. Owners, Braman & Co., care of architect. Slow burning construction, 3 stories and basement, 100x110 feet, slag roof, pine floors, electric light, freight elevators, rolled steel sash, fire doors, fire tower, dampproofing, iron stairs. Architect taking bids due June 8th.

**House and Store**, Olyphant, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, J. M. Langan, Olyphant, Pa. Frame, 2½ stories, 24x28 feet, asphalt shingle roof, pine floors, steam heat, electric light. Owner ready for bids.

**Store**, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Mrs. D. S. Stone, 1628 Jefferson street, Scranton, Pa. Brick and steel, 1 story, 30x100 feet, slag roof, yellow pine floors, steam heat, electric light, skylights, metal ceilings. Architect ready for bids.

**Store and Lodge**, Old Forge, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owner, J. M. Howland, Old Forge, Pa. Brick, steel, 2 stories, 50x175 feet, slag roof, pine floors (heating and electric work reserved), metal lath, tile and marble work, rolled steel sash, roof ventilators, metal ceilings, waterproofing. Architect ready for bids due June 16th.

**Residence**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. M. Stuber, 628 Forrest avenue, Bethlehem, Pa. Stucco and cinder block, 2½ stories, 26x26 feet, hot water heat, electric light, asphalt shingle roof, pine floors. Owner ready for bids.

**Warehouse (alts. and add.)**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owners, J. I. Bell Co., Wilkes-Barre, Pa. Brick, steel, 1 story, 40x100 feet, composition roof, plank and steel truss floors, heating extension, electric light, freight elevators, elevator doors,



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roof ventilators, rolled steel sash and skylights, fire escapes. Low bidder, O. J. Behrens, 179 Blackman street, Wilkes-Barre.

**Twin Residences (24)**, Elm avenue and West Chester Pike, Delaware County, Pa. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, M. Cotler, 1220 North Forty-second street, Philadelphia. Brick and stucco, 2½ stories, 18x48 feet, tile and slate roof, hardwood floors, hot water heat, electric light, tile work, metal lath, cement garages in basement. Plans completed. Owner ready for sub-bids in a few days.

**Parochial School**, Cheltenham, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of the Presentation of the B. V. M., Rev. James J. Gibbons, Cheltenham, Pa. Brick, stucco and steel, 2 stories, 64x48 feet, slag roof, pine and maple floors, hollow tile, metal lath, terrazzo, bond, terra cotta, iron work. Architect taking revised bids due June 7th.

**Apartment House**, Bala, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, Mrs. C. W. Kendricks, Bala, Pa. Stone and stucco, 5 stories and basement, 25x35 feet, slag roof, composition floors (heating and lighting extensions). Architect ready for bids due June 7th.

## Pennsylvania Contracts Awarded

**Club House**, Brookline, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Brookline Square Club, care of J. Elmer Watts, Brookline, Pa. Brick, cut stone, steel and stucco, 2½ stories, 175x175 feet, shingle roof, cement and pine floors, hollow tile, metal lath, tile and marble work, bond (heating, electric work and plumbing reserved). Contract awarded to Bowden Const. Co., 1935 Chestnut street, Philadelphia.

**Louis H. Eisenlohr Memorial Buildings for Girls**, Elizabethtown, Pa. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Brick, cut stone, reinforced concrete and steel, 3 stories and basement, 98x52 feet, slate roof, composition, cement and maple floors, hot water heat, electric light, metal lath, metal weather strip, bond, iron work. Contract awarded to Hughes Foulkrod Co., Commonwealth Building.

**Club House**, Shamokin, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Shamokin Valley Country Club, D. H. McGhee, Shamokin. Frame and stucco, 1 story, 60x80 feet, shingle roof, steam heating, electric work, tile and terrazzo work, hollow tile, steel lockers, promenade tile. Contract awarded to Percy N. Swan, Sunbury, Pa.

**Club House (alts.)**, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Glenside Tennis Club, Glenside, Pa. Brick, 1 story, 15x20½ feet, slag roof, cement floors (heating and plumbing reserved), iron work. Contract awarded to Albert Zellfelder, 1324 Walnut street.

**Residence**, Clay street, Scranton, Pa. Architect, Edward Langley, Scranton Life

Building, Scranton, Pa. Owner, Mrs. Thomas Sprague, 629 Clay street, Scranton, Pa. Frame and stucco, 2 stories, 28x52 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to H. Stender, 1001 Madison avenue, Scranton, Pa.

**School (add.)**, Hazleton, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owners, St. Joseph's Parochial School, Hazleton, Pa. Brick, stucco, 2 stories and basement, slate roof, yellow pine floors, electric light. Contract awarded to Joseph Zeleznak, 70½ North Laurel street, Hazleton.

**Church**, Miners Mills, Pa. Architects, Morris & McHale, Mear Building, Scranton, Pa. Owners, Lithuanian Roman Catholic Church, care of architects. Brick, 1 story, 50x85 feet, asbestos shingle roof, pine floors, steam heating, electric lighting, marble work. Contract awarded to S. Juzwiak, Miners Mills, Pa.

**Apartment**, Scranton, Pa. Architect, A. J. Ward, Scranton, Pa. Owner, B. H. Leipman, 1008 Pine street, Scranton, Pa. Frame, 2 stories and basement, shingle roof, hardwood floors, vacuum heat, electric light, tile work. Contract awarded to Fred Klee, 1030 Paul avenue, Scranton, Pa.

**Elks' Home**, Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, B. P. O. E., Mr. Erich, Allentown, Pa. Brick, 4 stories, 22x48 feet, slate roof, hardwood floors, tile and terrazzo work (heating and electric work reserved), ornamental iron work. Contract awarded to Ochs Const. Co., 440 Wire street, Allentown, Pa.

**Store and Storage Building**, West King street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Marshall E. Smith & Co., Strawberry and Lafayette streets, Lancaster, Pa. Brick, mill const., 3 stories, 36x60 feet, slag roof, yellow pine floors, steam heat, electric light, steel sash, fire doors. Contract awarded to Walter Zook, 311 North Queen street, Lancaster.

**Factory**, near Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owners, National Bearings Co., 637 Lancaster avenue, Lancaster. Brick, steel, 1 story, 100x30 feet, composition roof, pine floors, electric light, rolled steel sash, fire doors. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster, Pa.

**Apartment**, 130 East Walnut street, Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, Amos J. Hershey, 5 East Vine street, Lancaster, Pa. Brick, 3 stories, 22x60 feet, tin roof, oak floors, hot water heat, electric light, tile work. Contract awarded to R. Wohlsen, 27 West James street, Lancaster.

**Residence**, Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, Eugene Spangler, Lancaster, Pa. Stucco, cinder block, 1½ stories, 30x45 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to E. J. Koons, Lancaster, Pa.

**Cattle Pens**, Stock Yard, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Union Stock Yards Co., Mr. Adams, Lancaster, Pa. Frame, 1 story, 200x100 feet, composition roof, concrete floors. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster.

**Hydrothapentic Building**, Retreat, Pa. Ar-

chitect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Central Poor District, George Brown, Retreat, Pa. Fireproof, 2 stories, 40x70 feet, slag roof, tile and composition floors (heating, electric work and plumbing reserved), metal lath, tile and marble work, cut stone, kalamein doors, waterproofing. Contract awarded to Nanticoke Const. Co., Nanticoke, Pa.

**School**, Pittston, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre. Owners, Pittston School Board, J. Callahan, secretary, Pittston. Brick, 2 stories and basement, 66x125 feet, slag roof, maple floors (heating, electric work and plumbing reserved), hollow tile, metal lath, rolled steel skylights, roof ventilators, steel stairs. Contract awarded to Alimo Brothers, Pittston, Pa.

**School**, Pringle, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Pringle, T. M. Gaugh, Pringle, Pa. Frame, 2 stories, 70x100 feet, slag roof, pine floors, electric light, roof ventilators. Contract awarded to E. J. Donahue, Ashley, Pa.

**New Front (alts. and add. to church)**, Lykens, Pa. Architect, Carl Berger, 1520 Spruce street, Philadelphia. Owners, St. Mary's Church, Rev. H. W. Herzog, Lykens, Pa. Tapestry brick, cut stone, terra cotta and castone, slate roof, plumbing, steam heating, metal lath, plastering, carpentry, mill work, painting, personal bond (electric work and leaded glass reserved). Contract awarded to Joseph F. Kramer, Lykens, Pa.

**Theatre (rebuilding)**, Norristown, Pa. Architects, Hoffman Henon Co., Finance Building, Philadelphia. Owners, Grand Opera House, care of A. and L. Sablosky, Norristown, Pa. Brick and steel, composition roof, cement and rubber tile floors, roof ventilators, metal lath, marble and terrazzo, hollow metal sash, kalamein doors, bond and iron work. Contract awarded to F. R. Heavner, Norristown, Pa.

## New Jersey Construction News

**Residence**, Lenape avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, William J. Bickett, 28 Newell street, Trenton, N. J., Brick, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work. Plans in progress.

**Residence**, 151 South Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mrs. Daniel J. Bechtel, 480 West State street, Trenton, N. J. Brick, 2 stories, 87x25 feet, slag roof, yellow pine floors, hot water heat, electric light, metal lath, tile and marble work. Plans in progress.

**Warehouse (alts.)**, Fifth and Pine streets, Camden, N. J. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Harry Pensky Sons & Co., Camden, N. J. Brick, 5 stories and basement, 60x80 feet, slag roof, electric light, heating alterations, carpentry, cement work, general alterations. Plans in progress.

**Main Building (alts. and add.)**, Trenton, N. J. Architect, A. B. Mills, State Capitol, Trenton, N. J. Owners, State of New Jersey,

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M. B. Harris, Trenton, N. J. Brick, 1 story, 30x60 feet, slate roof, pine floors (heating, plumbing and electric work reserved), hollow tile, metal lath, tile and marble work, roof ventilators, iron stairs, ornamental iron work (main building general alterations). Architect ready for bids.

**Residence**, Hopewell, N. J. Architects, W. W. Slack & Son, St. Regis Theatre Building, Trenton. Owner, Mr. Vieg, Hopewell, N. J. Brick, frame, 2½ stories, 30x40 feet, (2) porches, slate roof, tile and hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owner will take bids.

**Double Cottage**, Glen Gardner, N. J., \$12,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, Dr. English, Glen Gardner, N. J. Frame and stucco, 2½ stories, 28x50 feet, tile roof, hardwood floors (heating, electric work and plumbing reserved), tile work. Architects taking bids due June 7th.

**Tuberculosis Infirmary (add.)**, Glen Gardner, N. J., \$35,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, care of Dr. English, Glen Gardner, N. J. Hollow tile and stucco, 2 stories, 30x83 feet, tin roof, reinforced concrete and tile floors, electric light, tile work. Architects taking bids due June 7th.

**Nurses' Home**, Glen Gardner, N. J., \$31,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, Dr. English, Glen Gardner, N. J. Hollow tile and stucco, 2½ stories and basement, 30x100 feet, tile roof, hardwood floors (heating, electric work and plumbing reserved), hollow tile, tile and marble work, roof ventilators, ornamental iron work. Architects taking bids due June 7th.

**Shop Building (add.)**, School of Industrial Art, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Mr. Fell, City Hall, Trenton, N. J. Lowest bidder: J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

**Telephone Exchange Building**, Twelfth and Wesley avenue, Ocean City, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia, Pa. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Site purchased. Work contemplated.

**Public School Building**, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education of Woodbury, High School Building, South Broad street, Woodbury, N. J. Owner taking bids due June 21st at 7 P. M. (daylight saving). Plans and specification may be obtained from architect. Deposit, \$20.00. Refund, \$20.00.

## New Jersey Contracts Awarded

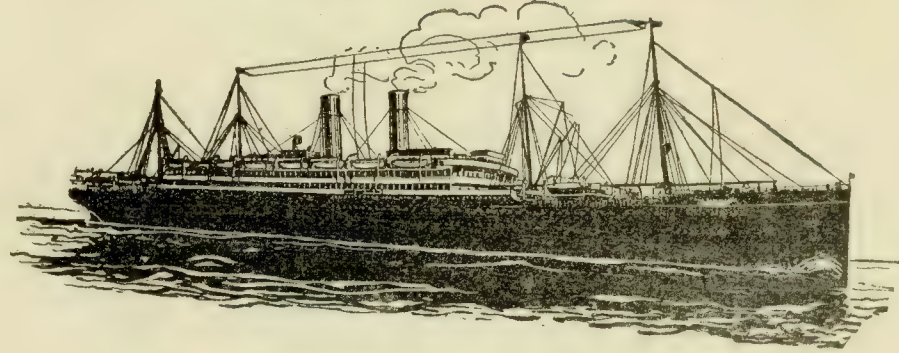
**Garage (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Edward Cook, care of architect. Brick, 1 story, 145x90 feet, slate roof, concrete floors, floor hardener, electric light, rolled steel sash. Contract awarded to Thomas Day & Son, Fitzcharles Building, Trenton, N. J.

**Garage**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Standard Tire Co., Commonwealth Building, Trenton, N. J. Brick, 1 story, 90x18 feet, slag roof, concrete floors, hollow tile. Contract awarded to S.

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telligent persons who wish to visit the battlefields of France, the Shakespeare country, Scandinavia, the Land of the Midnight Sun, etc. A chance of a lifetime! So it would seem; but it is more than that. The company is building for a permanent business, setting a new standard of high-class ocean travel on a one-class basis. That this can be done at a fair margin of profit has already been proved and is further outlined in our prospectus. You'll find it extremely interesting.

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W. Mather & Sons, Greenwood and Canal, Trenton, N. J.

**Office (add.),** Hanover street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, W. M. Dickinson Co., 145 East Hanover street, Trenton. Brick, steel, 1 story, 18x25 feet, slag roof, hardwood floors, metal lath, heating extension, electric lighting, rolled steel skylights. Contract awarded to William C. Ehret, 13 West State street, Trenton, N. J.

**Dormitory,** New Lisbon, N. J. Architect, A. B. Mills, State Capitol, Trenton, N. J. Owners, Colony for Feeble Minded, care of Mr. Morgan, New Lisbon. Concrete block and stucco, 2 stories, 80x40 feet, slate roof, hardwood floors, electric lighting. Contract awarded to McCloskey Co., Inc., 1618 Thompson street, Philadelphia.

**High School (add.) and Grade School,** Moorestown, N. J. Architect, Frank Sanders, Pennsylvania Bank Building, Chester, Pa. Owners, Board of Education of Moorestown Township, L. E. Klotz, District Clerk, Moorestown, N. J. Brick and steel, 3 stories, 76x58 feet, slate roof, maple floors, roof ventilators, dampproofing, iron work, bond, hollow metal skylights, steam heat, electric work, plumbing reserved). Contract awarded to Chester Const. & Cont. Co., Chester, Pa. Electric, Buzby & Thomas, 1109 Race street, Philadelphia.

**Grade School,** Lenola, N. J. Architect, Frank Sanders, Pennsylvania Bank Building, Chester, Pa. Owners, Board of Education of Moorestown, N. J., L. E. Klotz, District Clerk, Moorestown, N. J. Brick and steel, 3 stories, 100x60 feet, slag roof, maple floors, hollow tile safety treads, roof ventilators, iron stairs, bond (steam heat, electric light and plumbing reserved). Contract awarded to George W. Shaner & Son, Palmyra, N. J. Electric, Buzby & Thomas, 1109 Race street, Philadelphia. Plumbing and heating not yet awarded.

Thos. H. Livezey & Co., have removed their offices to their shop at 2319 Sedgley Ave., Philadelphia.

(Continued from page 356)

made up of superintendents' salaries or wages for the time of timekeepers and material clerk, also the expense of equipment, rentals, setting up equipment, removing and putting equipment in good order and hauling it back to the yards, temporary offices, tool shed, cement shed, temporary power and light, temporary enclosures and fences, sidewalk protection, water connection, tarpaulins, machinery protection equipment, hauling, etc. (Offices, sheds, etc., should be considered cost.)

#### *Invisible Overhead and Lost Time*

Invisible overhead arises on a job or project, and is very often incurred by negligence, sometimes sabotage. More often the best efforts cannot prevent it and should be taken into consideration when making up an estimate.

Lost time is the bottomless pit into which more money than can be estimated has been dumped by contractors. A day free from delays will produce twice as much as an average day. To attain the ideal production means cost keeping and system—hence overhead. Invisible overhead is usually composed of more or less

the following items: Interference of inclement weather, time lost by breakdowns, time lost by shifting plants, time lost waiting for other parts of the project to be made ready, time lost waiting for material, time lost by shifting men to other jobs, efficiency lost by putting on new men, crews too small to be effective in relation to superintendents, foremen, etc. This last item was the case with a certain bricklaying and plastering situation last summer. The builder often had his foremen working with two or three bricklayers and as many laborers. Could he have obtained 20 bricklayers, his overhead would have been the same per diem. The importance of including this invisible expense in the estimate as a contingency or overhead is readily apparent.

#### *Making Up of Overhead*

The making up of overhead is, of course, not alike in every office, but if the gross expense for the year, including the contractor's own salary, is \$15,000 and the business amounts to \$300,000 per year, evidently the overhead is 5 per cent. There are a number of books of more or less value written on the subject of "Cost Keeping Systems" on construction work. Nevertheless, the builder neglects the opportunity of familiarizing himself with and studying the systems offered, and will continue his lamentations over unfair competition and his complaints about the contracting business being the worst business on the earth to use up men and money. In going through the State of Illinois last year, I had many talks with former contractors and realized that they were very quick to criticize and damn their colleagues in the same town and nearby towns, but that they had little understandings of the real system of the business. They, as a rule, had been excellent mechanics and sometimes foremen, and had been content to let their laurels rest on these achievements. I also found contractors unwilling to sit down and talk over operations and costs with their competitors, and to generally organize for their own good.

#### *System*

Taking the first step in system is to map out the object desired and also to map out the results to be obtained and preferably always on paper. It is astonishing what cold figures, on paper, will analyze after a job has been completed. System includes the keeping of records and costs, such as bookkeeping, filing system and estimating. The contractor sometimes objects to a system and calls it red tape, but, somehow or other, the operators who have surrounded themselves with some red tape do not seem to make assignments in bankruptcy as often as the man who will have none of it. The small contractor objects to system because it takes up so much of his time. If the

small contractor's business has grown to such an extent that he must work more than ten hours to keep abreast with his work, then it is absolutely necessary for him to acquire some help, so that he may keep his business records correct as to the income and the outgo of money, the records of his banking accounts, the condition of his equipment and tools, etc. He then at once acquires overhead in addition to his own salary. As to what a builder's salary should be, his competitor, his conscience and his avariciousness will have to be his guide.

#### *Sub-Contractors' Overhead*

We have been discussing the overhead of the general contractor, usually known as the carpenter or mason contractor. His overhead is, of course, considerably less than the overhead of, for example, the plumbing contractor or the painting contractor. The average overhead of the painting contractor is approximately 20 per cent., consisting of the usual fixed expenses and miscellaneous expenses, use and depreciation of brushes, paint pots, step ladders, drop cloths, jack ladders, small cloths, auto trucks, etc. It has been found that 22½ per cent. is an average overhead for the plumber and it ranges from 18 to 20 per cent. in small establishments where the proprietor puts in his time in the evening, making out calculations, bills, rent, use of tools, etc.

#### *Cost Keeping*

Just one word about cost keeping and bookkeeping. The psychology of having a cost keeping system tends to bring out efficiency in one's crews, and, if employed for no other reason, would pay for itself on each job, whether cost-plus or straight contract. An owner who objects to paying for a costkeeping system, having a cost-plus job, is cheating himself, and is very apt to have surprises before the job is done, and, quite often, an existing friendship is broken up by ugly charges.

Uncle Sam in his desire for money, has foisted upon us the income tax, and has taught us all how to keep books or go to jail. But I would like to caution contractors to constantly urge their bookkeepers to have their bills ready and get their accounts rendered, and insist upon payments. The man who has his accounts up to the minute and is up on his collections seldom has to go to court or employ the mechanics' lien law. Red tape has saved him a loss on cost-plus work. Where it is known that the contractor has a real system or an overhead which shows up every item of cost on the project, he will have no trouble with his statements, and 90 per cent. of the time Mr. Owner will never send in an auditor. Again I caution you that the cost of the building is made up of its labor, material, its various contingencies, and OVERHEAD.

*The Constructor.*



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co., Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop, 1520 Sansom St., Phila.  
General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop, 1520 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W., 121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros., 2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News, Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co., 1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE WORK.

Massiah, Frederick, Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co., Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc., 321 Land Title Bldg., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros., 3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## FENCES.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co., 316 N. 3rd St., Phila.  
Wayne Iron Works, Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc., 321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Thos. F. Gibson, Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros., 44 N. 5th St., Phila.  
Miller, Henry M., 46 N. 2nd St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros., 44 N. 5th St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co., Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros., 3138 N. 24th St., Phila.  
Riddle, Wm. H., 1110 S. 31st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co., 2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co., 1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.  
Oil-O-Matic Heating Co., 1610 Fairmount Ave., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H., 27th and Diamond St., Phila.  
Ketcham, O. W., 121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co., 1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Baker Warehouse, Venango and G Sts., Phila.  
Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W., 18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard, 3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co., 10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co., 433 Spruce St., Phila.  
Penna. Tile & Mosaic Co., 1531 Cherry St., Phila.  
Roman Mosaic & Tile Co., 435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co., 1345 Arch St., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co., Real Estate Trust Bldg., Phila.

## MORTGAGE FUNDS.

Taylor, G. Herbert, Pennsylvania Bldg., Phila.

## OIL HEATERS.

Oil-O-Matic Heating Co., 1610 Fairmount Ave., Phila.

## ORNAMENTAL IRON.

Berko Bros., Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

Wayne Iron Works, Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).

Colonial Shop, Inc., 1222 Chancellor St., Phila.

PAINTS AND VARNISHES.

Truscon Laboratories, 1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W., 121 N. 18th St., Phila.

## PHOTOSTATS.

Keystone Blue Paper Co., 910 Filbert St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co., 44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co., 949 N. 9th St., Phila.

## RANGES.

Borden Stove Co., 1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Miller, Henry M., 46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## REFRIGERATORS.

Borden Stove Co., 1026 Arch St., Phila.  
Miller, Henry M., 46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Baker Warehouse, Venango and G Sts., Phila.

## ROOFING.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.

## ROOFING SLATE.

Chapman Slate Co., Bethlehem, Pa.  
Emack, The John D. Co., Otis Bldg., Phila.

## ROOFING TILE.

Ketcham, O. W., 121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co., Finance Bldg., Phila.  
Fairlamb, P. H. Co., 115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
Smith, Edwin A., & Son, 1015 Frankford Ave., Phila.

## SEWER PIPE.

Clausen, Wm. H., 27th and Diamond Sts., Phila.

## SHEETROCK (Wall Board).

Pearce Fireproof Co., 1345 Arch St., Phila.  
Tague, Jas. E., & Co., 10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.

## SLATE.

Emack, The John D. Co., Otis Bldg., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS.

Uhrig Brothers, 528 E. Wishart St., Phila.

## STAIRS (Sheet Steel).

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STEAM SHOVEL CONTRACTORS.

McCarrick Bros., 3138 N. 24th St., Phila.

## STEEL SASH.

McFarland-Meade Co., 70th and Kingsessing Ave.

## STONE.

John D'Lauro, 55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair, East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S., Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.

Ketcham, O. W., 121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co., 433 Spruce St., Phila.  
Carroll, Thos. A., 2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co., 1531 Cherry St., Phila.  
Roman Mosaic & Tile Co., 435 Green St., Phila.

## TRANSITS.

General Reproduction Co., 1518 Sansom St., Phila.  
Keystone Blue Paper Co., 910 Filbert St., Phila.  
Robbins, Chas. H., 1209 Arch St., Phila.  
Warren-Knight Co., 136 N. 12th St., Phila.  
Weber, F., Co., 1125 Chestnut St., Phila.  
Weil, J. H., Co., 1315 Cherry St., Phila.

## VENTILATORS.

Iona Ventilator Co., Inc., 2821 W. Dauphin St., Phila.

## VENTILATING SYSTEMS.

Pralatt Equipment Co., 722 Drexel Bldg., Phila.

## WALL BOARD, COMPO BOARD.

Ketcham, Howard, 3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock).

Pearce Fireproof Co., 1345 Arch St., Phila.  
Tague, Jas. E., Co., 10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H., 27th and Diamonds Sts., Phila.

## WATER HEATERS.

Borden Stove Co., 1026 Arch St., Phila.  
Fleck Bros., 44 N. 5th St., Phila.  
Richardson & Boynton Co., 1308 Arch St., Phila.

## WATER PAINT.

Southern, Wm. B., N. W. Cor. 12th and Spruce Sts., Phila.

## WATERPROOFING.

Adensite Co., Inc., 321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co., 829 N. 3rd St., Phila.  
Gibson, Thomas F., Franklin Trust Bldg., Phila.  
Truscon Laboratories, 1432 S. Penn Square, Phila.

## WHITEWASHING.

Southern, Wm. B.,  
N. W. Cor. 12th and Spruce Sts., Phila.

## WINDOW GUARDS (Wire).

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.

## WIRE PARTITIONS.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.

## WIRE WORK.

Berko Bros., Randolph and Wood Sts., Phila.  
Cyclone Fence Co., 18 S. 7th St., Phila.  
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 24  
June 13, 1923

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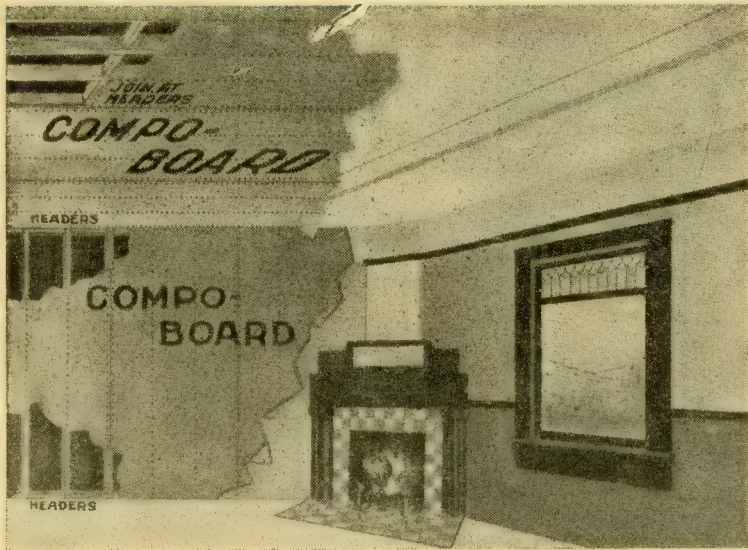
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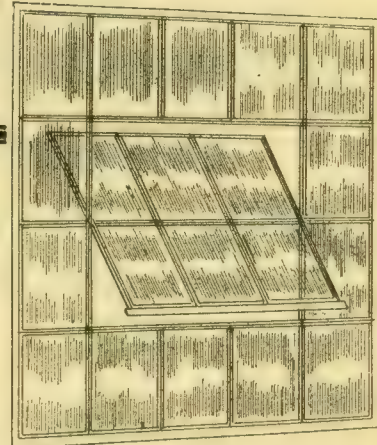
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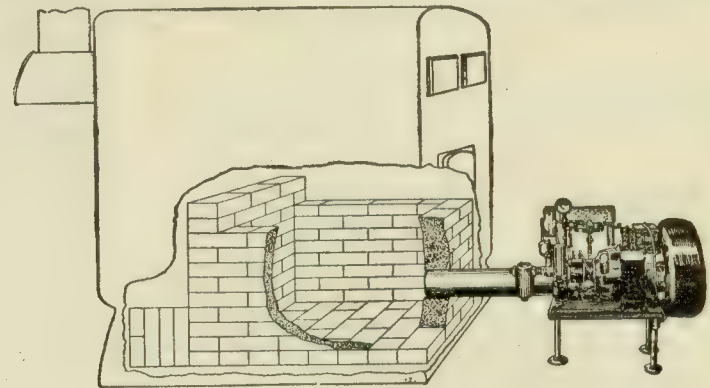
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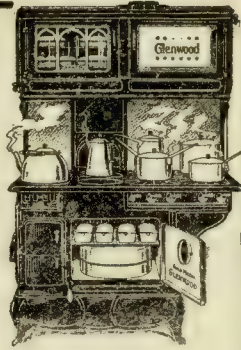


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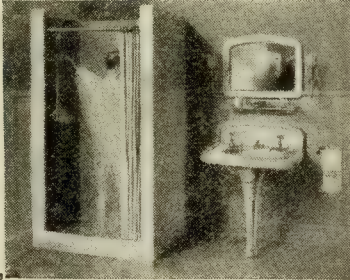
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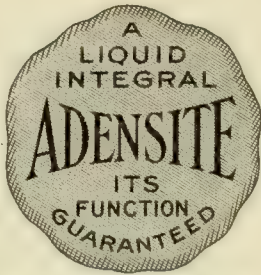
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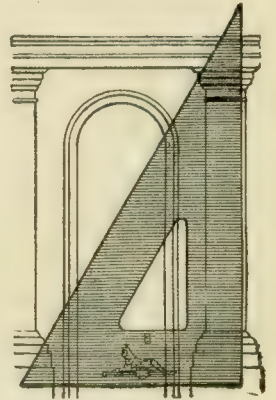
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Devoted to the Advancement of American Architecture, Structural  
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VOLUME XXXVIII  
Number 24

PHILADELPHIA  
June 13, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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## As The Editor Sees It



### A NEW HOTEL IN YOUR TOWN

*The first of a series of articles that will trace, step by step, the phases through which the medium size town hotel project should pass before it becomes a successful reality.*

By W. L. STODDART, Architect.

Reprinted Through Courtesy of "Hotel Management"

ONE fine morning Mr. Jones, a progressive young manufacturer of Blankville (30,000 inhabitants) awoke with a wholly new idea. Where it came from he did not know, but as he kept turning it over in his mind, he became more and more impressed with it—and with himself for having giving birth to it. Yes, it was a wonderful idea—probably the most remarkable of the many he had conceived and carried through to the benefit of himself, his factory and Blankville.

Blankville needed a new hotel! That was the idea. A modern, well-appointed hotel that would not only do credit to the community, and serve its local institutions more effectively than they had ever been served before, but one that would also attract buyers and visitors from the outside world who would patronize the local stores and stimulate Blankville's commercial life all the way up and down the line.

With the right kind of a hotel it might

even be possible to take conventions and political rallies away from Bigtown (60,000 inhabitants) twenty miles up the line. Blankville had many attractive physical advantages to offer convention delegates—why shouldn't such an up-and-coming young city cash in on its beautiful surroundings?

Jones was convinced that what the town undeniably needed was a new modern hotel.

How, then, was he to "put the idea across?" Should he tackle the Chamber of Commerce and local Rotary and Kiwanis Clubs? Their answer would probably be: "Would the people support it?" That was a logical question, too—*would* the people support it? Jones was too astute a business man not to realize that unless he could get the community behind him the proposition would never be successful.

The first step, then, was to stir up public interest in the proposed hotel—and the obvious way to do that was to "talk it up" both to his business men friends and through the medium of the local press. Jones was what is known as a "live wire." He took the editor of the daily paper out to lunch that day and the result of their conference appeared in tangible form two days later in an editorial in the "Blankville Review," advocating the erection of a new hotel. All Jones' arguments in favor of such an institution were well presented, and citi-

zens were invited to comment on the project.

In the meantime Jones had not been cooling his heels. When he and his wife went to the movies with the Browns he broached the subject to them—Brown was vice-president of the Blankville Savings & Trust Company. Jones himself wrote a letter to the "Review" editor enthusiastically endorsing the plan, and this was published in due course. He also persuaded his friend, Smith, who handled his insurance matters for him, to come out in favor of the idea in the public print. Through such schemes as this the project gradually gathered momentum and when the Chamber of Commerce held its monthly meeting two weeks later, Jones felt that the time was ripe to "spring" it.

He was pleasurably surprised when several prominent citizens whom, because of their conservatism, he had not felt it advisable to approach, seemed to take to the idea favorably. Brown, Smith and several of his more intimate cronies, of course came out strongly in its favor. On the other hand, there were a number of older men—men who had made their pile and were about ready to retire—who took the attitude that Blankville had always managed well enough with its present rooming facilities, and saw no reason for courting trouble by trying to raise subscriptions for a new-fangled notion such as this.

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### *Sounding Out Public Sentiment*

The up-shot of the discussion was the appointment of a committee, consisting of a group of Blankville's representative bankers and business men, with instructions to sound out public sentiment more definitely and report to the Chamber at its next meeting. Jones was made a member of this committee and it must be admitted that his business suffered through neglect that month. His work, and that of the other committee members was well rewarded, however, for at the next meeting of the Chamber every committee member reported that public sentiment was very definitely in favor of the new hotel.

With this information as a starting point, the Chamber of Commerce recommended that a tentative board of directors be formed and the project organized on a business basis. The Chamber, furthermore, went on record as endorsing the plan and offered its moral support to the new enterprise.

Jones was elected chairman of the board. As associates he had Brown of the Savings and Trust Company, Green, the "Review" editor, Williams, a local attorney, and Harvev, owner of a wholesale dry goods store. It was up to these men to proceed with the undertaking. Where should they start and what should they do? Good, sound, practical business men all of them; yet they had never had experience promoting a hotel project. They knew, of course, that it would be necessary to raise funds by local stock subscription, engage an architect and builder, determine the size and kind of hotel that would be best adapted to the town's requirements, select its site and do all in their power to keep it filled, but when it came to applying tried and proven methods for the accomplishment of these purposes, they were totally at sea. They had reached the point where it was necessary for them to call in outside, expert advice if they were to proceed intelligently.

\* \* \* \* \*

The above is a typical description of the way in which a great many hotels—particularly hotels in towns of from 20,000 to 50,000 population—are started. It is given in some detail because it seems advisable to trace the various steps that business men in such a community usually go through before actually deciding to inaugurate such a project. These steps form a background that the reader should keep in mind if he is interested in tracing the concrete developments of the project step by step, as they will be described in this series of articles.

Starting with *Hotel Management* for July, these steps will be taken up in detail, one article being devoted to each, in the following order:

1. Determining the Size Hotel the City Requires
2. Selecting the Site
3. Adapting the Hotel to the City's Needs.
4. Cost and Financing Considerations
5. The Architect's relation to the Enterprise.
6. The Working Arrangement with the Lessee.

### COLOR EFFECTS IN SLATE

Slates differ in color, and some colors are much more in demand than others, the preference being based more on tradition than on artistic taste or actual qualities of the slates, states Oliver Bowles, mineral technologist of the Bureau of Mines, who has completed a study of the technology of slate for the Department of the Interior. A wider market for colors not now in demand depends, therefore, on the cultivation of public taste, states Dr. Bowles. Architects and builders can widen the field of utilization of roofing slate by judicious efforts to popularize new colors or combinations of colors.

Slates are classed as fading or unfading according to their color stability. The fading of green slates is probably due to the presence of iron carbonate which seems to be present not as pure siderite, but as an isomorphous mixture of the carbonates of iron, lime, magnesium, and possibly manganese. The hydrous iron oxide formed by decomposition of the carbonate through action of certain solvents carried in rain water destroys the green color and causes fading. The black and gray slates usually contain small amounts of such constituents and are therefore nearly permanent in color. Bluish slates commonly turn grayish, and red slates may turn brown. The green slates are the most uncertain, some are practically permanent in color, but others fade and discolor badly.

A moderate and uniform fading may not be detrimental, but may produce a more pleasing effect, though in replacing broken slates it may be difficult or impossible to match the colors. Nonuniform fading results in spots or streaks and is undesirable. The formation of some spots is due to the weathering of grains of the iron sulphides, pyrite, or marcasite.

Spots and blotches are very objectionable in slates. Many of the red and purple slates contain pale green spots, some bordered with purple. The spots range in size from minute specks to spots 2 inches or more across, some are circular or oval and others are irregular. In places the spots form bands or ribbons.

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CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Club House**, 221 South Eighteenth street, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Penn Athletic Club, care of E. B. Morris, Jr., Chairman Building and Site Committee, Morris Building, Philadelphia. Stone, brick, steel, limestone, concrete, terra cotta, hardwood composition, pine and cement floors, elevators, roof ventilators, tile and marble work, waterproofing, swimming pool, steam heat, electric light, metal lath, kitchen equipment, plumbing. Plans in progress.

**Residences (27), Stores and Residences (2)**, South side of Wyoming avenue, between V street and Whitaker avenue, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Morrison, Clemence & Segar, 2918 Wharton street, Philadelphia. Brick, 2 stories, 15 feet 6 inches x 40 feet, irregular in size, slag and tin roof, hot water heat, electric light, tile work, metal lath, hardwood floors, garages in basement, cement work. Plans in progress.

**Stores and Apartments (12) and Garages**, Fifty-fourth, between Arlington and Berks streets, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owners, Kenin & Shapiro, Fifty-seventh and Florence, Philadelphia. Brick, 2 stories and 1 story, 17 feet 4 inches x 65 feet, 17 feet 4 inches x 19 feet, slag roof, hardwood floors and cement floors, hot water heat, electric light, tile work. Plans in progress.

**Bakery and Power House**, 4811 Germantown avenue, Philadelphia, \$600,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, J. S. Ivins' Sons, Inc., 625 North Broad street, Philadelphia. Brick, stone, concrete and steel, 5 stories and basement, slag roof, pine floors, elevators, rolled steel sash, roof ventilators, fire doors, cement floors. Plans in progress.

**School** (Rodney Lawler), Mt. Pleasant and Sedwick avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, stone, steel and concrete, 3 stories and slag roof, electric. Plans in progress.

**High School**, Lancaster avenue, Overbrook, Pa., \$1,500,000. Architect, private plans. Owners, Board of Education, Nineteenth

above Chestnut street, Philadelphia. Brick, stone, steel and concrete, 3 stories and basement. Plans in progress.

**Residences (2)**, Germantown, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Russell Foster, Sixty-seventh and Ogontz avenue, Philadelphia. Stone, 2½ stories. Plans in progress.

**Residences (3) (alts.)**, 1507-09-11 Pine street, Philadelphia. Architects, McLenahan & Bencker, Bellevue Court Building, Philadelphia. Owner, name withheld. Converting 3 small residences into 2 residences. General alterations, new lighting, heating, hardwood, etc. Plans in progress.

**Graduate School**, Thirty-fourth and Walnut streets, Philadelphia. Architects, Stewartson & Page, 315 South Fifteenth street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Stone, brick and steel. Preliminary plans in progress. Too early for details.

**Store Building (alts. and add.)**, 725 Sansom street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, S. Vederan, on premises. General alterations, 3 story building, hot water heat, electric light, plumbing, new partitions, skylights, painting and glazing, carpentry and mill work, plastering, pine floors. Architect ready for bids.

**Store and Apartments (4) (alts. and add.)**, Fifteenth and Loudon streets. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Harry C. Lieberman, Colonial Trust Building, Philadelphia. General alterations. Plans completed. Architect taking bids due June 15.

**Garage**, 1836-42 North Front street, Philadelphia. Architect, D. J. Pappano, Thirteenth and Reed streets, Philadelphia. Owner, S. Shroglia, on building site. Brick, slow-burning, 2 stories, 66x110 feet, slag roof, cement and plank floors, elevators, steam heat, electric work, rolled steel sash, hollow metal skylight. Owner will take sub-bids.

**Garage**, 106-08 North Front street, Philadelphia. Architect, D. J. Pappano, Thirteenth and Reed streets, Philadelphia. Owners, Federal Const. & Realty Co., 1240 Reed street, Philadelphia. Brick, slow burning, 2 stories, 20 feet 6 inches x 120 feet, slag roof, cement

plank, elevators, steam heat, electric light, rolled steel sash, hollow metal skylight. Owner will take sub-bids.

**Parish House**, Rittenhouse and McCallum streets, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Barnabas' Protestant Episcopal Church, care of Rev. E. S. Thomas, 112 West Rittenhouse, Germantown, Philadelphia. Stone, steel and precast stone, 2½ stories, 72x41 feet, slate roof, oak and yellow pine floors, bond, ornamental iron work, electric lighting, steam heating. Architect taking bids due June 18th.

**Residence into Office and Apartments (alts. and furnishing)**, 3243 Chestnut street, Philadelphia. Architect, Herbert J. Wetherill, 420 Allen Lane, Chestnut Hill. Owners, American Anti-Vivisection Society, on premises. Brick, cut stone, steel and iron, tin roof, carpentry and mill work, plastering, tile work, galvanized iron skylight, electric work, plumbing, hot water heating, bond. Architect taking bids.

**Building**, Harrowgate Incinerating Plant, G and Romona streets, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, Room 232, City Hall. Brick, steel, terra cotta and concrete, slag roof, monolithic and cement floors, elevators, iron work and stairs, hollow metal doors, rolled steel sash (electric, heating, plumbing, burner equipment, foundations, excavation reserved). Owner taking bids due June 18th at 11 A. M. (standard time).

**Building**, 1318 Vine street, Philadelphia. Architect, Max A. Bernhardt, 717 Walnut street, Philadelphia. Owner, Dr. B. R. Simons, Tenth and Market streets, Philadelphia. Architect taking bids due June 18th.

**Store Building (alts. and add.)**, 725 Sansom street, Philadelphia. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, S. Vederan, on premises. General alterations, 3 story building, hot water heat, electric light, plumbing, new partitions, skylights, painting and glazing, carpentry and mill work, plastering, pine floors. Architect taking bids due as soon as possible.

**Miscellaneous Work**, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall, J. H. Neeson, Acting Chief of Bureau. Miscellaneous, grading, asphalt paving, improvements of intersection Thirty-fourth, Walnut and Woodland avenues, asphalt paving mixture, paving block filler, ready mixed Portland cement concrete, Portland cement, reconstruction of bridges, materials for repairing of bridges. Owners taking bids due June 18th at 11 A. M. (standard time).

**Fraternity House**, 3706 Locust street, Philadelphia. Engineer, Thomas Byrd Epps, 101 Tremont street, Boston, Mass. Owners, Kappa Sigma Fraternity, care of Wesley Leshner Blithe, 608 Chestnut street, Philadelphia. Brick, stone and steel, 3½ stories, 57x38 feet, hot water heating, metal lath, tile and

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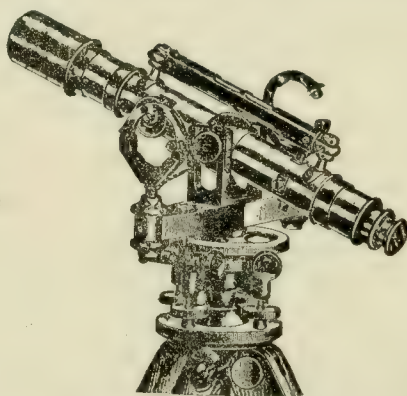
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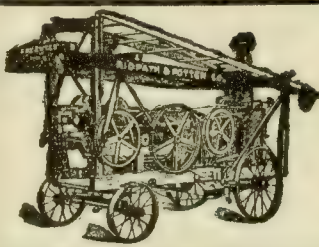
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marble work, ornamental iron work, slate roof, oak and yellow pine floors. Architect taking bids due June 16th.

**Apartments (alts.)**, 1411-13 Erie avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Dr. M. F. Herrman, on premises. Carpentry and mill work, plastering, painting, composition floors, hardware, brick and cement work (plumbing, heating and electric reserved). Architect taking bids due June 15th.

**Building (alts.)**, 348 South Fifteenth street, Philadelphia. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owner, Warren C. Graham, on premises. Painting, hardwood floors, plastering, cut stone, cement work, hardware. Architect taking bids due June 15th.

**Building (alts.)**, 150 Willow street, Philadelphia. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owners, P. W. Kiefaber Estate, care of architect. Brick walls, rolled steel sash. Architect taking bids due as soon as possible.

**Office and Fraternity Building**, Nineteenth and Fitzwater streets, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Grand United Order of Odd Fellows, care of architect. Reinforced concrete, steel, brick and granite, 6 stories and basement, 56x125 feet, steam heat, electric light, metal lath, tile and marble work, bond, ornamental iron work, terra cotta, elevators, cement and yellow pine floors, slag roof. Architects taking bids due June 25th.

**Building (alts.)**, 1520 North Seventeenth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Lester G. Steppacher, on premises. Brick, slag roof, oak floors, electric light, metal lath, tile and marble work (heating, paperhanging and lighting fixtures reserved), plastering, painting, glazing, hardware, plumbing. Architect taking bids due June 14th.

**School (alts. and add.)**, 2020 Stella street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Assoc. Talmed Torahs of Philadelphia, Sixth and Mountain streets, Philadelphia. Brick, 2 stories, 20x80 feet, rearranging partitions, plumbing. Plans completed. Owner will build.

**School Building**, Torresdale, Wakeling, Dittman and Margaret streets. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, steel, 3 stories and basement, 90x182 feet (plumbing, heating, electric separate), composition roof, mastic asphalt cement floors, metal lath, hollow tile, marble and terrazzo work, safety treads, rolled steel sash, hollow metal doors, cold wa-

ter painting, waterproofing, iron work and iron stairs. Low bidders: Cramp & Co., Denckla Building, Philadelphia, \$895,370; Sinclair & Griggs, Medical Arts Building, Philadelphia, \$896,700. Heating, S. Faith & Co., 2437 Pennsylvania avenue, Philadelphia, \$90,400. Plumbing, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$40,300. Ventilating, Howlett Co., Fourth and Columbia, Philadelphia, \$3,650. Electric, James Cummings & Son, 4526 Frankford avenue, Philadelphia, \$31,446.

**Playground**, Ann, Cambria, Cedar and Co-hocksink streets, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Philadelphia. Only bidder on general work, J. B. Kelly, 2315 Walnut street. Item A, \$114,818, \$115,618, \$117,918, \$115,655. Item B, \$109,518, \$114,118, \$114,548. Low bidders: Plumbing, William White, 2216 Ridge avenue, Philadelphia, \$6,786. Heating C. M. McCarthy, 4511 Lancaster avenue, Philadelphia, \$8,449. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$3,111.

**Northeast Sewage Treatment Work**, Philadelphia. Achedule "A", Wheatsheaf Lane, North of Richmond street, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Surveys, 216 City Hall. Contract No. 1, erection of locker building. Contract No. 2, electric work. Contract No. 3, plumbing. Contract No. 4, heating. Contract No. 3, plumbing system of administration building, metal flowgates and weirs of Imhoff tanks. Driving test pipes in Delaware River. Cutting reinforced concrete lumber. Schedule "B", Pennypack Sewage treatment work. State road and Ashburner street. Operating machine for filter spray controlled, cast iron water and service pipes. Schedule "B", Frankford Creek, grit chamber, Lycoming and O Street. Contract No. 1, grading, paving, water pipe, etc. Contract No. 2, fences and gates. Contract No. 3, electric work. Contract No. 4, painting. Contract, water supply main on O street. Bond. Owner taking bids due June 20th, 11 A. M. (standard time). Inquire Room 416, City Hall, Philadelphia.

**Residences (9) and Residence and Store (1)**, D and Loudon streets, \$63,000. Architect, private plans. Owner, Frank G. Haufler, 431 West Tabor Road, Philadelphia. Brick, 2 stories, 15x37 feet, (9) 15x26 feet, 12x11 feet, hot water heat, electric light. Owner will build.

**Residences (12) and Store and Residence (1)**, Chew and Locust avenue, \$55,000. Architect, private plans. Owner, N. Litman, 1597 North Fifty-second street, Philadelphia. Brick, 2 stories, 18x60 feet, (3) 17x38 feet, (4) 16x60 feet, (5) 15x32 feet, 12x16 feet,

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slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (12)**, North side Pratt street, West of Large, \$84,000. Architect, F. G. Caldwell, Stephen Girard Building, Philadelphia. Owner, C. Thomas Beechwood, Jr., 5537 Frankford avenue. Brick, 2 stories, 18x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

**Apartment (alts.)**, 5402 Chester avenue, Philadelphia, \$6,000. Architect, William F. Charr, 149 South Fourth street, Philadelphia. Owner, David Sorkin, on premises. General alterations. Owner will build.

**Residences (2)**, North side Wakeling street, West of Horrocks street, \$5,000 each. Architect, private plans. Owner, Edward T. Bender, 6014 Torresdale avenue, Philadelphia. Brick, 2 stories, 17x41 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Residences (8)**, West side Charles street, North of Harrison, \$4,500 each. Architect, private plans. Owners, William M. France & Sons, 1511 Oxford avenue, Philadelphia. Brick, 2 stories, 17½x30 feet, slag roof, oak and pine floors, electric lighting. Owner will build.

**Residence**, North side Shelmire street, East of Whitaker avenue, \$4,000. Architect, private plans. Owner, Peter F. Heidt, Bleigh and Montour streets, Philadelphia. Frame, 2 stories, 16x45 feet, oak and pine floors, electric light. Owner will build.

**Shop (add.)**, 1019 Callowhill street, Philadelphia, \$3,000. Architect, private plans. Owner, C. W. Paris, 1939 West Pacific street, Philadelphia. Brick, 2 stories, 20x100 feet, slag roof, pine floors, electric work. Owner will build.

**Residence**, 1108 South Franklin street, Philadelphia, \$2,500. Architect, private plans. Owner, J. Buscaforne, 1109 Passyunk avenue, Philadelphia. Brick, 2 stories, 16x26 feet, pine floors. Owner will build.

**Workshop**, 4734-36 North Second street, Philadelphia, \$3,000. Architect, private plans. Owner, Frank Buchert, 508 Glenwood avenue, Philadelphia. Brick, 1 story, 24x40 feet, slag roof, pine floors. Owner will build.

**Office (alts.)**, 2929 North Eighth street, Philadelphia, \$2,000. Architect, private plans. Owners, American Parquetry Floor Co., 2928 North Eighth street. General alterations. Owners will build.

**Residences (7)**, (4) Front and Luray streets and (3) Front and Courtland streets, Philadelphia, \$4,300 each. Architect, private plans. Owner, Ray G. Frick, Judson and Indiana avenue, Philadelphia. Brick, 2 stories, (4) 15x29 feet, (3) 16x29 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (2)**, East side Glenlock street, North of Magee street, \$3,800 each. Architect, private plans. Owner, William F. Peters, 6713 Jackson street, Philadelphia. Brick, 2

stories, 16x39 feet, pipeless heating, electric lighting. Owner will build.

**Building**, 5432-36 Baltimore avenue, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Samuel Knee, 135 South Forty-ninth street, Philadelphia. New front, brick, marble, concrete and tile work, 3 stories, slag roof, iron and steel work, galvanized iron skylights, bulk windows (metal), carpentry and mill work, oak floors, plastering, hardware, plumbing, painting and glazing, bond. Architect taking bids due June 18th.

**Alterations and Additions**, 1621 Spruce street, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, and associate architect, Charles Barton Keen, Winston-Salem, N. C. Owner, Dr. P. Brooke Bland, on premises. Brick, cut stone, cement work, carpentry and mill work, metal door frames, iron work, plastering, painting, hardware, tin roof. Architect taking bids due June 21st.

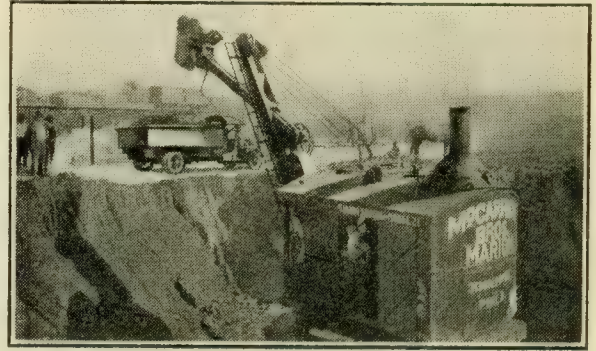
**Apartment House**, Overbrook and Lancaster avenue. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, Hugh L. Miller, care of architect. Brick, steel and stone. Preliminary plans in progress.

**Twin Residences**, Walnut Lane, Philadelphia. Architect, Frank M. Stetler, 33 Overhill Road, Upper Darby, Pa. Owner, Rosa Propper, 467 Lyceum avenue, Philadelphia. Brick, stone, 2½ stories, 36x46 feet, slate, canvas and Spanish tile roof, hot water heat, electric light, metal lath, tile and marble work, ornamental iron work. Architect taking bids June 20th.

**Residence (alts. and add.)**, Twenty-second and Spruce streets, Northwest Corner, Philadelphia, Pa. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 11x12 feet, tin roof, yellow pine floors, electric light, painting, carpentry, plumbing, plastering, hardware. Architect taking bids due June 15th.

**Nurses' Home**, Fifth and Reed streets, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Mt. Sinai Hospital Association, 1429 South Fifth street, Philadelphia. Brick, cut stone, limestone, 5 stories and basement, 125x38 feet (plumbing, heating, electric reserved), slag roof, linoleum, cement and oak floors, metal lath, tile and marble work, rolled steel sash, kalamein and hollow metal doors, bond, floor hardener, iron work, elevators, safety treads, waterproofing, terra cotta. Architect taking bids due June 18th at noon.

**Train Shed Extension and Basement in Court of Merchandise Building**, Philadelphia, Pa. Architects, George Nimmons & Co., 122



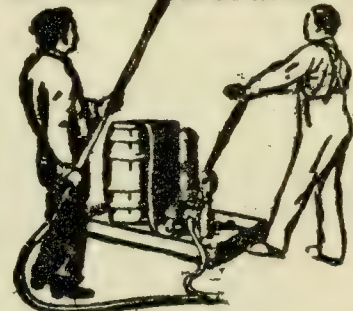
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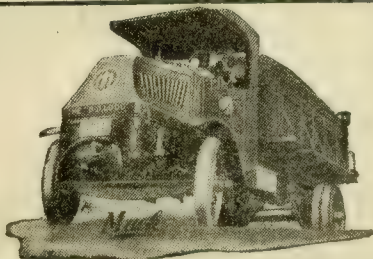
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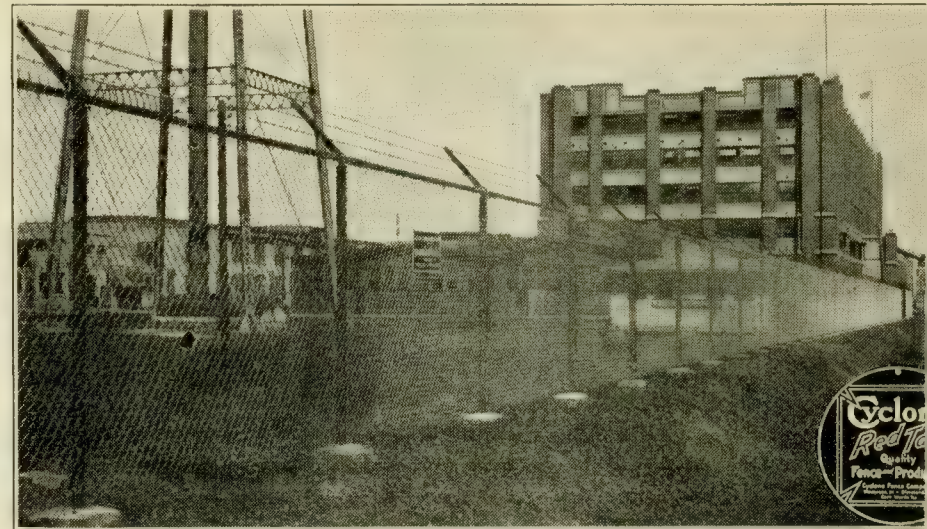
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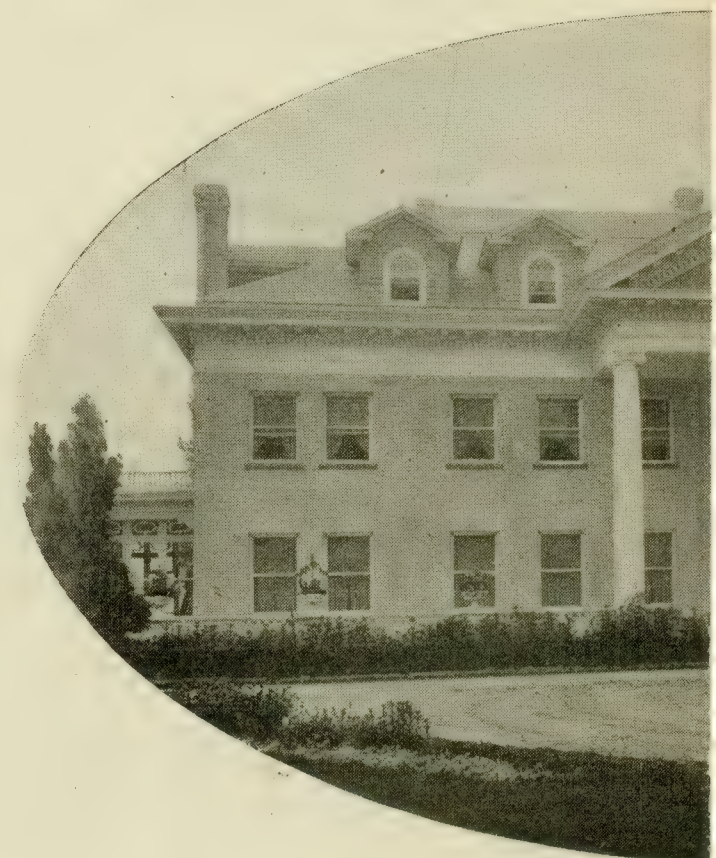
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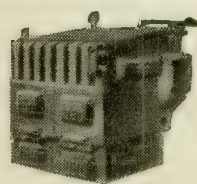
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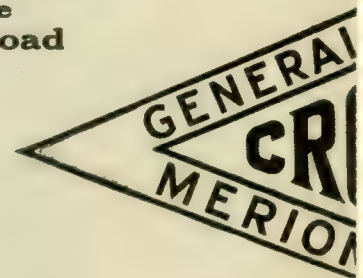
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South Michigan avenue, Chicago, Ill. Owners, Sears Roebuck & Co., Philadelphia, Pa. Reinforced concrete, brick, steel, 190x76 feet, basement 280x120 feet, composition roof, cement floors, caisson foundations, rolled steel shutters and sashes, galvanized iron skylights, fire doors, bond, iron stairs, ornamental iron work, terra cotta, waterproofing (heating, electric, sprinkler system and conveyor work

reserved). Architect taking bids due June 20th.

**Residences (2) and Store**, Seventy-ninth and Buist avenue, Philadelphia, \$10,500. Architect, private plans. Owner, Andrew Pajor, Eightieth street and Avenue D, Philadelphia. Brick, 2 stories, 16½x48 feet and 18x48 feet, slag roof, hardwood and pine floors, steam heating, electric lighting. Owner will build.

iron work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

**New Front to Building**, 3535 Germantown avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, J. R. Lassen, on premises. Brick, steel and limestone, electric work, hot water heating, plumbing, plastering, carpentry and mill work, painting and glazing. Contract awarded to Frank G. English, 1610 North Carlisle street.

**Residence**, Stenton, Pa., \$11,400. Architect, Harry Gordon McMurtie, 1012 Walnut street, Philadelphia. Owner, G. P. Bible, Sewell, N. J. Stone, 3 stories, 25x37 feet, electric light, hardwood floors. Contract awarded to Jacob Hansen, Afton street, Fox Chase, Pa.

**Store (alts.)**, 1210 North Fifty-second street, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Carl Grumfeld, on premises. Concrete work, carpentry, mill work, painting and glazing, plaster, marble work (heating, electric and plumbing reserved). Contract awarded to C. H. Donovan, 619 North Fifty-second street, Philadelphia.

**Building (alts. and add.)**, 1513 Race street, Philadelphia. Architect, Amos W. Barnes, 1704 Ludlow street, Philadelphia. Owners, J. J. Griffin Co., on premises. Enclosure of 5 stories stairs, roof repairs, carpentry, metal lath, cement paving, painting, brick and concrete, ornamental iron work. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

**Residence and Garage**, Southwest Corner Fifty-third and Woodbine avenue, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Louis Frankel, 2219 North Thirty-third street, Philadelphia. Stone, hollow tile, steel and plaster, 2½ and 1½ stories, 32x54 feet and 22x22 feet, shingle tile work, metal weather strips, iron work (lighting reserved). Contract awarded to N. Nandy Co., 1713 Sansom street.

**Garage (add.)**, 875-77 North Forty-fifth street, Philadelphia. Architects, Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia. Owner, Thomas Aiken, on premises. Brick and steel, 1 story, 15x105 feet, slag roof, cement floors, heating and lighting extensions, rolled steel sash and skylights. Contract awarded to Henry J. Walters, 412 North Fortieth street, Philadelphia.

**Residence**, South side Kenilworth avenue, West of Seventh street, \$15,500. Architect, private plans. Owner, Paul Mucklman, Ninth and Tioga streets, Philadelphia. Stone, 3 stories, 27x40 feet, 14x10 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Fred Grapner, 936 Wagner avenue, Philadelphia.

## Contracts Awarded

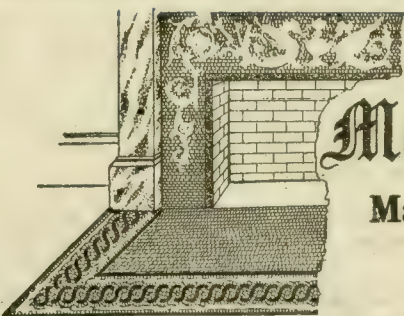
**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Residence**, 3014 Midvale avenue, Philadelphia. Architect, C. W. Seltzer, care of owner. Owner, C. L. Cushmore, 4640 Greene street, Philadelphia. Stone, 2½ stories, 26x40 feet, 8x18 feet, slate roof, hardwood floors (heating, plumbing and electric reserved). Owner is now taking bids on heating. Contract awarded to Gilbert S. Smith, 1003 Sixty-ninth avenue, Oak Lane.

**Club House**, Eighth and Tabor Road, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owner, Philadelphia Rifle Club, on premises. Buff brick, 2 stories and basement, 80x123 feet, red tile roof, steam vapor heating, electric light, tile

and marble work, plumbing, hardwood floors and dumb waiters. Contract awarded to Philip Haibach Cont. Co., Twenty-sixth and Thompson streets.

**Factory**, Fifth and Buttonwood streets, Philadelphia, \$55,000. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, G. D. Feidt & Co., 244 North Fifth street, Philadelphia. Brick, cut stone, terra cotta, steel, 2 stories and basement, 82x102 feet (plumbing, heating, electric and elevators reserved), slag roof, cement and pine floors, hollow metal sash, rolled steel and galvanized iron skylights, metal window guards, fire and rolled steel doors, bond, ornamental



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**Residence and Store**, Northwest Corner Second and Wyoming avenue, \$12,000. Architect, private plans. Owner, M. J. Reiser, 251 South Felton street, Philadelphia. Brick, 3 stories, 20x45 feet, slag roof, oak and pine floors, hot water heat, electric light. Contract awarded to A. Sonnenfeld, 287 South Sixty-third street, Philadelphia.

**Apartment (add.)**, 1453 North Sixth street, Philadelphia, \$10,000. Architect, private plans. Owner, S. Wolhfbel, et al., 1809 North Seventh street, Philadelphia. Brick, 3 stories, 18x24 feet, 3½x34 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Harry Slass, 1809 North Seventh street, Philadelphia.

**Residence**, West side Bustleton avenue, South of Rhawn street, \$8,500. Architect, Christian Freas, Fox Chase, Philadelphia. Owner, Russell Griffith, Bustleton, Philadelphia. Brick, 3 stories, 36x28 feet, and 1 story, 11x9 feet, electric light. Contract awarded to Walter Freas, 9532 Bustleton avenue.

**Apartment House (alts.)**, 3421 Race street, Philadelphia, \$8,000. Architect, private plans. Owner, Mary R. Gaul, Southeast Corner Thirty-fifth and Powelton avenue, Philadelphia. Carpentry, mill work, plastering, painting and glazing, iron work, electric work, heating. Contract awarded to F. B. Davis & Son, 240 North Sixteenth street.

**Building**, 1215-21 Wood street, Philadelphia. Architect, Amos W. Barnes, 1704 Ludlow street, Philadelphia. Note architect. Owner, W. R. Lipkin, 250 South Broad st., Philadelphia. Contract awarded to Joseph P. Collins, 5632 Walnut street, Philadelphia.

**Residence and Store (alts. and add.)**, 546 South Forty-fifth street, \$8,000. Architect, private plans. Owner, Morris Dospassas, on premises. Brick, 1 story add., 16x85x8 feet, general alterations. Contract awarded to Golder Const. Co., 274 South Twentieth street, Philadelphia.

**Building (repairs)**, Northwest Corner Thirteenth and Buttonwood streets, \$6,000. Architect, private plans. Owner, C. B. D. Richardson, Franklin Building, Philadelphia. Repairing fire damage. Contract awarded to F. G. English & Son, 1608 North Carlisle street.

**Residence**, South side Oakmont street, East of Palmetto street, \$5,500. Architect, private plans. Owner, A. T. McLane, 6013 J street, Philadelphia. Frame, 1 story, 25½x31 feet, hot water heating, electric lighting. Contract awarded to Louis D. High, 1025 Robbins avenue, Philadelphia.

**Residences (12)**, 203-25 West Wyoming avenue, Philadelphia, \$5,000 each. Architect, private plans. Owner, M. J. Reiser, 251 South Felton. Brick, 2 stories, 15x28 feet, 12x9 feet, hot water heating, electric lighting. Contract awarded to A. Sonnenfeld, 287 South Sixty-third street, Philadelphia.

**Residences (3)**, 3319-21-23 Edgemont street, Philadelphia, \$4,500 each. Architect, private

plans. Owner, Ignatz Lewandonski, 3317 Edgemont street, Philadelphia. Brick, 2 stories, 16x28 feet, 12x16 feet, 12x8 feet, hot water heating, electric lighting. Contract awarded to M. Baranonsky, 1614 Juniata street, Philadelphia.

**Office (alts.)**, 1216 Locust street, Philadelphia, \$4,500. Architect, private plans. Owner, A. J. MacNeil, Cynwyd, Pa. General alterations, new heating. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

**Garages (2)**, 3537 North Lee street, Philadelphia, \$7,500. Architect, private plans. Owner, F. G. Schaeffer, 3500 North Water street, Philadelphia. Brick, 1 story, 16x103 feet and 81x32 feet, slag roof, cement floors. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Residences (2)**, West side Tabor Road, North of St. Vincent street, Philadelphia, \$4,500 each. Architect, private plans. Owner, M. Glazer, 1238 North Lawrence street, Philadelphia. Frame, 2 stories, 16x37 feet, oak and pine floors, electric light. Contract awarded to M. Glazer, 1238 North Lawrence street, Philadelphia.

**Residence and Store (alts. and add.)**, 4153 Lancaster avenue, \$3,950. Architect, private plans. Owner, M. Brownstein, on premises. Brick, 1 story, 12x12 feet, 3x15 feet, general alterations. Contract awarded to M. Weinstein, 801 North Thirty-ninth street, Philadelphia.

**Residence (add.)**, 1223 Allengrove street, Philadelphia, \$2,000. Architect, private plans. Owner, F. Salendo, on premises. Brick, second story add., 12x16 feet. Contract awarded to Rush Brothers, 1006 Harrison street, Philadelphia.

**Residence**, 8825 Lyons avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Laura Wright, 2538 Annin street, Philadelphia. Brick, 1 story, 20x26 feet, pine floors, electric lighting. Contract awarded to J. H. Minor, 8716 Madison avenue, Philadelphia.

**Garage**, East side Sixty-sixth street, North of Stiles street, \$2,500. Architect, private plans. Owner, James Simpson, Sixty-sixth and Haverford avenue, Philadelphia. Brick, 1 story, 82x16 feet, slag roof, cement floors. Contract awarded to John H. Patterson, 6209 Girard avenue.

**Residence and Store (alts.)**, 1226 Tasker street, \$2,500. Architect, private plans. Owner, S. Randazzo, on premises. General alterations. Contract awarded to N. Scurci, 2640 South Twelfth street, Philadelphia.

**Residence**, 2312 East Sergeant street, Phil-

adelphia, \$2,200. Architect, private plans. Owner, Samuel Rollinson, on premises. Brick, 1 story, 26x50 feet, mill work. Contract awarded to Robert Beatty & Brother, 2321 East Fletcher street.

**Residence and Office (alts.)**, 325 South Seventeenth street, Philadelphia, \$4,300. Architect, private plans. Owner, Dr. Lowenburg, on premises. General alterations. Also garage, brick, 1 story, 16x19 feet. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

**Residence and Store (alts.)**, 160 West Dauphin street, \$2,400. Architect, private plans. Owner, Charles Bradley, on premises. General alterations. Contract awarded to W. L. Campbell, 2411 North Hancock street.

**Store and Storage Building (add.)**, Southwest Corner Colorado and Jackson streets, Philadelphia, \$2,000. Architect, private plans. Owner, R. Laner, 1323 Dickinson street, Philadelphia. Brick, second story add., 16x26 feet, pine floors, slag roof. Contract awarded to M. Di Panfilo, 907 Tasker street, Philadelphia.

**Residence**, North side Grovers avenue, West of Eighty-fifth street, \$2,000. Owner, Louis J. Spence, 1703 Chestnut street, Philadelphia. Frame, 1 story, 24x38 feet, pine floors, electric lighting. Contract awarded to H. John Homan Co., 1703 Chestnut street.

**Garage**, 1604 Ruffner street, Philadelphia, \$2,100. Architect, private plans. Owners, P. McAmara Estate, 4305 Germantown avenue, Philadelphia. Brick, 1 story, 15x68 feet, slag roof, cement floors, electric work. Contract awarded to Frank V. Radowski, 4329 North Sixteenth street, Philadelphia.

**Residence**, West side Fifty-third street, North of Gaynor Road, \$20,000. Architect, private plans. Owner, B. Wilensky, 1012 South Fifty-fourth street, Philadelphia. Brick, 3 stories, 43x38 feet, hardwood floors, electric work, tile work. Also garage, \$2,000, 1 story, brick, 20x24 feet. Contract awarded to A. Sharp 5237 Baltimore avenue, Philadelphia.

**Residences (2)**, East side Oakley street, North of Levick street, \$10,000 each. Architect, S. E. Slack, 6311 Woodlawn avenue, Philadelphia. Owner, F. Schnessele, 6511 Rising Sun avenue, Philadelphia. Stone and frame, 3 stories, 26x40 feet, hot water heat, electric light, tile work, hardwood floors. Contract awarded to H. S. and S. E. Slack, 6311 Woodlawn avenue.

**Garage**, West side Fifty-first street, North of Woodland avenue, \$9,000. Architect, private plans. Owners, W. J. Bayles and M. E.

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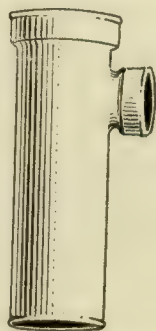
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Smith, 6202 Catharine street. Brick, 1 story, 17½x38 feet, 17½x78 feet, 30x23 feet and 50x34 feet, slag roof, cement floors, electric lighting. Contract awarded to W. J. Bayles, 6221 Catharine street, Philadelphia.

**Shop (add.),** 150-52 North Fifth street, Philadelphia, \$5,000. Architect, private plans. Owners, The Sterling Press, 150 North Fifth street, Philadelphia. Brick, 1 story, 36x18 feet, 22x10 feet and 12x12 feet, slag roof, electric work. Contract awarded to Wedow & Meyers, 528 Perry Building, Philadelphia.

**Residence and Store (add. and alts.),** Southwest Corner Alden and Locust streets, Philadelphia, \$2,500. Architect, private plans. Owner, J. Brodsky, 257 South Fifty-eighth street, Philadelphia. Brick, 1 story, 15x4 feet, general alterations. Contract awarded to Marcus & Parkman, 672 North 10th Street.

**Store (alts.),** 924 West Girard avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Louis Schwartz, on premises. General alterations. Contract awarded to Marcus & Parkman, 672 North Tenth street.

**Residence,** Northwest Corner Castor Road and Arthur street, \$8,455. Architect, private plans. Owner, Edward Pamper, Amber and Venango street, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Residence,** West side Bustleton avenue, North of Stanwood street, \$6,640. Architect, private plans. Owner, Esther L. Hussey, Fox Chase Road and Rhawn street, Philadelphia. Frame, 2 stories, 24½x27½ feet, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Residence and Store (add.),** 7042 Woodland avenue, \$3,000. Architect, private plans. Owner, S. Barenbaum, 3341 Ridge avenue, Philadelphia. Brick, 1 story add., 16x11½ feet, slag roof, electric work. Contract awarded to L. Swerdloff, 228 South Fifty-ninth street, Philadelphia.

**Residence and Store (add. and alts.),** 1962 Rowan street, \$2,100. Architect, private plans. Owner, Joseph Saroca, 4330 Wayne avenue, Philadelphia. Brick, 1 story, 12x14 feet, slag roof, electric work, alterations. Contract awarded to John Roman, 414 East Brighthurst street, Philadelphia.

**Bank (alts.),** Eleventh and Montrose streets, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, South Philadelphia State Bank, on premises. New balcony, brick and steel, carpentry and mill work, painting, pine floors,

electric work, bond, iron work. Contract awarded Frank Lucci, 1603 Ellsworth street, Philadelphia.

**Residence (alts.),** 1810 Pine street, Philadelphia. Architects, Hoffman Henon, Inc., Finance Building, Philadelphia. Owner, Dr. C. T. McCarthy, on premises. Brick, carpentry, mill work, hardware, painting, plastering, tile work. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

**Chapel and School Building,** Northeast Corner Mascher and Tioga streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Hugh's Roman Catholic Church, Rev. H. J. Dale, 144 East Alleghany avenue. Brick, cast cut stone, reinforced concrete and granite, 2 stories and basement, 168x60 feet, slag roof, cement and pine floors, roof ventilators, metal ceilings, waterproofing, iron work and stairs, bond, rolled steel sash, tile and marble work, metal lath, electric light, steam heat (alternate for face stone). Contract awarded to W. R. Dougherty, 1610 Sansom street, Philadelphia.

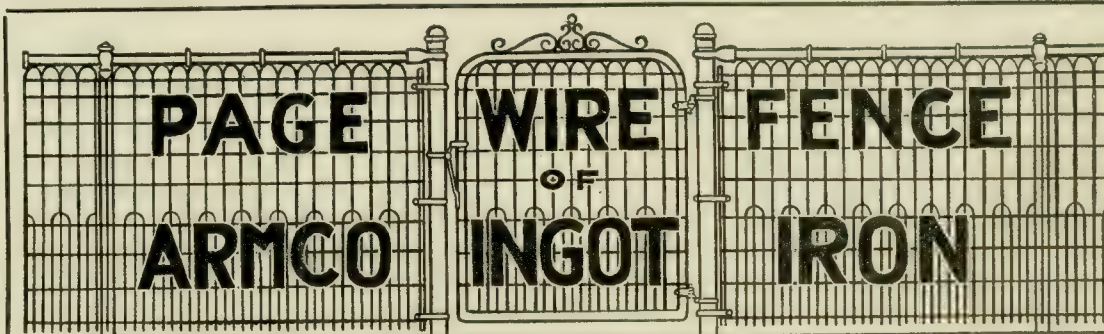
## Pennsylvania Construction News

**Bungalow,** Swarthmore, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, C. V. Andrews, Swarthmore, Pa. Hollow tile or Penn Building Block, stuccoed, 1½ stories, 30x60 feet, asbestos shingle roof, pine floors, hot water heat, electric lighting, tile work. Plans in progress.

**Residence and Garage,** Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Phillip Moore, 6644 Germantown avenue, Philadelphia. Frame and stone, 2½ stories. Architect ready for bids in a few days.

**School,** Morrisville, Pa. Architects, associate, P. L. Fowler & Co., Fitzcharles Building, Trenton, N. J., and T. B. Stockham, Morrisville, Pa. Owners, Morrisville School Board, Mr. Taylor, Morrisville, Pa. Brick, hollow tile, steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine floors (heating, electric work and plumbing reserved), hollow tile, metal lath, rolled steel sash, fire doors, bond, steel stairs, ornamental iron work safety treads, roof ventilators, metal ceilings, waterproofing, dampproofing. Owners ready for bids.

**Rectory,** Drexel Hill, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Church of Incarnation, Drexel Hill, Pa. Brick, cut stone, steel and stone, 2½ stories, 45x25 feet, hot water heat, electric



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light, metal lath, tile and marble work, copper skylights, bond, metal weather strip, pine oak and linoleum floors, slate and slag roof. Architect taking bids due June 19th.

**School**, McKinley, Pa. Architect, Tilden & Register, 1525 Locust street, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Brick, reinforced concrete, bluestone, limestone, granite and steel, 2 stories, 48x27 feet, wing 115x50 feet (plumbing heating, electric separate bids), metal lath, kalamein doors, bond, slate and slag roof, maple floors, iron work (moving picture booth and duraflex floors reserved). Low bidders: Frank C. Hood, 1619 Chestnut street, Philadelphia, \$80,000; E. Allen Reeves, Abington, Pa., \$83,666.

**Church**, Camp Hill, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Presbyterian Church, care of architects. Stone, 1 story and basement. Architects selected.

**Residence**, Boiling Springs, Pa., \$20,000. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owner, Mr. Kester, Boiling Springs, Pa. Stone, tile roof. Architects selected.

**Residence (alts.) to Apartment**, Hamilton street, Reading, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owner, name withheld. General interior alterations, partitions, hardwood floors, electric lighting (plumbing reserved). Plans in progress.

**Bungalow**, Academy Manor, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. L. W. Wright, 227 Pine street, Harrisburg, Pa. Brick, 1½ stories, 30x60 feet, hardwood floors, electric lighting, slate roof, metal lath. Plans in progress.

**Residence**, Fairfield, Adams County, Pa. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa. Owner, Dr. Ira Henderson, Main street, Fairfield, Pa. Brick, 2 stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Power House and Manual Arts**, Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Board of Education, Abington Township, C. M. Doll, secretary, Elkins Park. Brick, stone, cut stone, 1 story, 82x71 feet (plumbing, heating, electric reserved), slate and slag roof, composition, wood block and marbeloid floors, metal lath, bond, ornamental iron work, brick stack, 92 feet high. Low bidders: Frank C. Hood, 1619 Chestnut street, Philadelphia, \$37,500; Chester Const. & Cont. Co., Chester, Pa., \$39,941.

**High School (add.)**, Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Brick, concrete, stone, cut stone and steel, 2 stories, 94x109 feet (plumbing, heating, electric reserved), slate roof, composition, cement, marbeloid, yellow pine floors, metal lath, hollow tile, hollow metal sash and doors, bond, floor hardener, ornamental iron work, gymnasium, slag roof, 1 story, 96x76 feet. Low bidders: Harry Murphy, Willow Grove, Pa., \$137,000, add for gymnasium \$41,750; H. H. Wehmeyer, 509 West Cumberland street, Philadelphia, \$171,130, gymnasium included.

**Grade School (add.)**, North Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Brick, reinforced concrete, cut stone, steel and stone, 2 stories and basement, 10x125 feet (plumbing, heating and electric ventilators reserved), slate and slag roof, composition, cement and yellow pine floors, hollow tile, metal lath, rolled steel skylights and doors, bond, floor hardener, iron work. Low bidders: F. C. Hood, 1619 Chestnut street, Philadelphia, \$70,000, deduct \$1,800; Roy Randall, Horsham, Pa., \$71,672, deduct \$7,173.

**School**, "Glenside Weldon," Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Brick, cut stone, steel, granite and stone, 2 stories and basement, 136x106 feet (plumbing, heating and electric separate bids), slate and slag roof, composition, yellow pine and concrete floors, metal lath, hollow tile, hollow metal sash and skylights, bond, ornamental iron work. Low bidders: Harry Murphy, Willow Grove, Pa., \$188,500; Chester Const. & Cont. Co., Chester, Pa., \$202,000.

**Bank (alts. and add.)**, Carlisle, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Farmers' Trust Co., Dr. Sadler, chairman, Carlisle, Pa. Brick, 1 and 2 stories, 18x98 feet, composition roof, tile and marble floors, hollow tile, electric light, tile, marble and terrazzo work, sheet metal skylights, metal window guards, bank fixtures, bronze work, ornamental iron work. Owners taking bids due June 19th.

**Church**, East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Grace Lutheran Church, East Stroudsburg, Pa. Stone, steel, 1 story and basement, 50x80 feet, slate roof, hardwood floors (heating, plumbing, electric work and painting reserved), ornamental iron work. Owners taking bids due June 15th (note extension).

**Residence and Garage**, Hyde Park, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Charles W. Levin, Bernharts P. O., Pa. Brick, 2 stories, 75x33 feet, garage, 1 story, 28x27 feet, slag roof, pine floors, electric light, steel sash. Owner will build.

**Garage**, Wyomissing, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Henry Janssen, Textile Machine Co., Wyomissing, Pa. Brick, 2 stories, 40x25 feet, slate roof, concrete floors, hot water heat, electric light. Owner will build.

**Elementary School**, North Queen street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, School Board of Lancaster, Lancaster, Pa. Brick and cinder block, 2 stories, 204x140 feet, tile and composition roof, hardwood floors (heating, electric work and plumbing

reserved), metal lath, safety treads, roof ventilators, waterproofing, dampproofing, iron stairs, ornamental iron work. Ready for bids in one week.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg. Lowest bids submitted on road work opened June 7th, 1923.

Beaver County, A-2112, Economy Township, 6,659 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Harry V. Kirker Co., Beaver Falls, Pa., \$77,086.41.

Clarion County, R-218, A-1928, Edinburg Borough, 6,996 feet. One course reinforced concrete and hillside vitrified brick. George & Barnard, Clarion, Pa., \$70,373.10.

Clarion County, R-91, A-2217, Washington Township, 12,696 feet. One course reinforced concrete. R. W. Baldwin, Coraopolis, Pa., \$122,279.05.

Crawford County, A-2346, Springzoro Borough, 6,241 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Henry W. Horst Co., Rock Island, Ill., \$46,761.82.

Erie County, R-304, A-2308, North East Township, 12,214 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Charles H. Fry Const. Co., Erie, Pa., \$100,552.25.

Erie County, R-88, A-2307, Venango Township, 24,390 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Meredith & McVaugh, Detroit, Mich., \$190,583.08.

Indiana County, R-68, White Township, 2,727 feet. One course reinforced concrete. Owen & Plummer, Inc., Johnstown, Pa., \$29,972.45.

Lawrence County, R-233, A-2271, Scott and Plain Grove Townships, 18,189 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Burns & Burt, Ellwood City, Pa., \$199,391.96.

Northampton County, A-2202-3, Hanover Hanover and East Allen Townships, 22,886 feet. One course reinforced concrete. W. A. Palmer, Bethlehem, Pa., \$176,315.80.

York County, R-216, Sec. 3, A-2175, Chanceford Township, 26,812 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Comerford Const. Co., Fifth and Sansom streets, Philadelphia, \$235,182.

#### Resurfacing:

Armstrong-Butler County, R-69-70, South Buffalo and Buffalo Townships, 14,361 feet. Bituminous macadam, penetration method, on reconstructed base course. Garvey-Weyenberg Const. Co., Appleton, Wis., \$93,823.75.

Berks County, R-141, Tilden Township, 21,666 feet. Bituminous macadam penetration method of reconstructed base course. William E. Supplee, Wayne, Pa., \$93,159.60.

Butler County, R-73, Center and Butler Townships, 11,202 feet. Either bituminous surface course on concrete foundation or one

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course reinforced concrete. C. E. Walter, Butler, Pa., \$106,976.50.

Westmoreland and Fayette Counties, R-247, Rostraver and Washington Townships, 12,262 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Smith Const. Co., Youngstown, Ohio, \$61,316.22.

Fayette County, R-117, North Union Township, 8,374 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Warren Brothers Co., Boston, Mass., \$54,357.01.

Luzerne County, R-170, Fairview and Hanover Townships, 19,618 feet. Bituminous macadam penetration method on reconstructed base course. H. B. Sproul Const. Co., Inc., Scranton, Pa., \$78,991.00.

Lycoming County, R-18, Loyalsock Township, 11,400 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. George I. Thompson Co., Clearfield, Pa., \$91,358.40.

Northampton County, R-175, Upper Nazareth Township, 20,005 feet. One course reinforced concrete. Ward & Tully, Inc., Brooklyn, N. Y., \$138,096.06.

Washington Borough, R-108, North and South Strabane Townships, 16,413 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Smith Const. Co., Youngstown, O., \$92,863.50.

Westmoreland County, R-69, Hempfield Township, 10,300 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Smith Const. Company, Youngstown, Ohio, \$56,326.53.

Bids opened June 8th:

Beaver County, R-204, A-1942, Chippewa and Patterson Townships, 7,979 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Harry V. Kirker Co., Beaver Falls, Pa., \$75,947.50.

Beaver County, R-1950, Hopewell Township, 5,147 feet. One course reinforced concrete. Harry V. Kirker Co., Beaver Falls, Pa., \$50,101.50.

Clarion County, R-214 and 311, A-1940, Sligo Borough, 5,187 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Thomas W. Munro & Co., Dubois, Pa., \$55,397.20.

Crawford County, R-83, A-2325 and 2326, Pine and Conneaut Townships, 20,145 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. H. E. Bunce, Cambridge Springs, Pa., \$155,501.10.

Dauphin County, A-2025, Derry and Londonderry Townships, 22,890 feet. Either one course reinforced concrete or one course reinforced concrete and bituminous macadam penetration method on broken stone base. Stucker Brothers Const. Co., Harrisburg, Pa., \$158,872.30.

Erie County, R-304, A-2329, Amity Township, 1,508 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. J. C. Devine Co., Alliance, Ohio, \$102,717.40.

Northampton County, A-2309, A-2310, East Allen and Hanover Townships, 15,537 feet. One course reinforced concrete. W. A. Palmer, Bethlehem, Pa., \$116,989.65.

Northampton County, R-165, 155, A-2005, 13,627 feet, Wind Gap Borough. Either bituminous surface course on concrete foundation and hillside vitrified brick or one course reinforced concrete and hillside vitrified brick. McInerney & McNeal, Inc., Easton, Pa., \$134,917.60.

Somerset County, R-50, A-2268, 2269, Confluence Borough, 2,875 feet. One course re-

inforced concrete. M. F. McCabe Co., Fairmount, W. Va., \$42,834.

Resurfacing:

Blair County, R-53, Juniata, Blair and Allegheny Townships, 26,018 feet. Bituminous macadam penetration method on reconstructed base course. Paul Const. Co., Inc., Philadelphia, Pa., \$100,870.20.

Bucks County, R-281, Spur, Middletown Township, 21,878 feet. Bituminous macadam penetration method on reconstructed base course. James J. Barrett, Olden avenue, Trenton, N. J., \$77,223.05.

Bucks County, R-152, Doylestown and Bucknigham Townships, 16,803 feet. Bituminous macadam penetration method on reconstructed base course. W. C. Guncheon & Co., Smethport, Pa., \$78,426.10.

Butler County, R-73, Mercer Township, 10,548 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Charles Winters Const. Co., Renfrew, Pa., \$88,264.45.

Fayette County, R-247, Perry and Dunbar Townships, 83,8492 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Jones Const. Co., Salem, Ohio, \$133,019.35.

Greene County, R-111, Franklin Township, 12,017 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Reed & Moore, Waynesburg, Pa., \$82,588.72.

Lehigh County, R-163, South Whitehall Township, 19,500 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Weaver Contg. Co., Allentown, Pa., \$97,338.10.

Northumberland County, R-161, Coal Township, 17,858 feet. Bituminous macadam penetration method on reconstructed base course. Highway Const. Co., Philadelphia, Pa., \$70,605.20.

Tioga County, R-196, Richmond and Covington Townships, 13,977 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. R. J. DeLong, Williamsport, Pa., \$150,647.60.

Westmoreland County, R-118, Hempfield Township, 23,917 feet. Either bituminous macadam penetration method or bituminous surface course on reconstructed base course. Smith Const. Co., Youngstown, Ohio, \$123,312.01.

**Warehouse**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Block Brothers, rear of 419 North Prince street, Lancaster, Pa. Fireproof mill construction, 4 stories, 36x90 feet, 36x36 feet, slag roof, maple floors, electric light, rolled steel sash, fire doors. Architect taking bids due June 15th.

**Allentown Central Office Building (int. alts.)**, Loudon and Hale streets, Allentown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, hollow metal and kalamine doors, bond, iron work and stairs, carpentry and mill work, plumbing, hardware, hollow tile, cork and tile floors, kitchen equipment. Architect taking bids June 18th.

**Bank House (alts. and add.)**, Kittanning, Pa. Architects, Dennison & Hiron, 288 Lexington avenue, New York City. Owners, Safe Deposit & Title Guaranty Co., Kittanning, Pa. Changing, remodeling and enlarging. Certified check, \$1,000. Owner taking bids due June 26th at 1 P. M.

**Stores and Apartments (8)**, West Chester Pike and Golf Road, Upper Darby, Delaware County, Pa. Architect, M. M. Boonin, 1506 North Alden street, Philadelphia. Owners, Kolker & Lapidus, 150 South Sixtieth street,

Philadelphia. Brick, stone and steel, 2 stories, (7) 16x68 feet, (1) 18x70 feet, hot water heat, electric light, metal lath, tile work, flush bulks, iron stairs, metal ceilings, yellow pine, hardwood and tile floors, slag roof. Owners taking sub-bids.

**Residence**, Lot 11, Wynnewood, Pa. Architect, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owners, Dr. and Mrs. Arthur Clark, Otis Building, Philadelphia. Stone, brick, hollow tile and stucco, shingle roof, oak and pine floors, electric light, tile work, rolled steel sash, incinerator. Architect will take revised bids.

## Pennsylvania

### Contracts Awarded

**Residence (alts. and add.)**, Overbrook, Pa. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, J. J. Caskie, Bulletin Building, Philadelphia. Brick, concrete, stone and steel, slate roof, composition, oak and pine floors, electric lighting, metal lath, plastering, tile work, rolled steel sash, iron work, plumbing. Contract awarded Le Roy K. Smith, Forty-first and Chester, Philadelphia.

**High School**, Green Tree, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street. Owners, School District of Willistown Township, Chester, Pa.; secretary, Stanley L. Roberts, Malvern, Pa. Brick and stone, 2 stories and basement, 35x80 feet. Contract awarded to W. R. Beard, Coatesville, Pa., \$35,476. Plumbing, R. H. Phelps, Montgomery avenue, Malvern, Pa., \$1,662.50. Heating, American Heating & Ventilating Co., 200 North Fifteenth street, Philadelphia, \$3,810. Water supply system, R. H. Phelps, Malvern, Pa., \$453. Electric, Christman & Quillman, Norristown, Pa., \$430.

**Residence**, Cynwyd, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, H. N. Booth, Cynwyd, Pa. Hollow tile and frame, stucco, 2½ stories, 22x32 feet, pine floors, hot air heat, electric lighting, shingle roof. Contract awarded to G. W. Gregory, Swarthmore, Pa.

**Residence**, Cedar Lane, Swarthmore, Pa. Architect, C. M. Wells, Rutledge, Pa. Owner, H. H. Hulegg, Riverside, N. J. Frame and stucco, 2½ stories, 20x32 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Contract awarded G. W. Gregory, Swarthmore, Pa.

**Grand Stand**, Bloomsburg, Pa. Architect, W. A. Lang, Norristown, Pa. Owners, Columbia County Fair Commission, Columbia County, Pa. Concrete and steel. Contract awarded to Anthracite Bridge Co., Scranton, Pa.

**School (alts.)**, Manoa Road, between Eagle Road and West Chester Pike. Architects, Boyd, Abel & Gugert, Estey Building, Philadelphia. Owners, School District of Haverford Township, Joseph N. Huff, secretary, School Building, Oakmont, Pa. Hollow tile and slate work, carpentry and mill work, hot water heating, metal lath, plastering, painting, glazing, bond, iron work. Contract awarded to W. Harry Roberts, Oakmont, Pa.

**Club (alts. and add.)**, Reading, Pa. Architect, H. R. Heckman, Mineral Spring Road, Reading, Pa. Owners, Reading Veteran Volunteer Association, Reading, Pa. Indiana limestone, brick, 2 stories, 21x21 feet, Barrett roof, hardwood floors, electric light, marble work, iron work. Contract awarded to Fink Const. Co., 658 Penn street, Reading.

**Garage**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Watt & Shand, 2 East King street, Lancaster, Pa. Steel, cinder block, 2 stories, 62x86 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Con-



tracts awarded to Herman Wöhlson, Woolworth Building, Lancaster, Pa.

**Residence and Garage**, Overbrook, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Stone, half timber, 2½ stories, 80x25 feet, 1 story, 20x25 feet, hot water heat, electric light, tile and marble work, slate roof, hardwood and cement floors, grading, macadam road. Contract awarded to Le Roy K. Smith, Forty-first and Chester avenue, Philadelphia.

## New Jersey Construction News

**Bank Building**, Eighth and Asbury avenue, Ocean City, N. J. Architects, P. A. Davis, 3rd, & Dunlay, 1713 Sansom street, Philadelphia. Owners, Ocean City Title & Trust Co., Ocean City, N. J. Stone and brick, steel and concrete. Plans completed. Architects taking bids in 6 weeks.

**Cottage and Garage**, Cape May, N. J. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Mrs. Elizabeth Richardson, Cape May, N. J. Frame, 2½ and 1 stories. Plans in progress.

**Residence**, Trenton, N. J. Architects, P. L. Fowler & Co., Fitzcharles Building, Trenton. Owner, M. Crosby, care of architects. Brick and shingle, 2½ stories, 20x35 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

**Factory (alts. and add.)**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Freeman Electric Co., 803 East State street, Trenton. Brick, 3 stories, 100x190 feet, slag roof, concrete and wood floors, electric light, hollow metal sash, fire doors. Plans in progress. Architect will be ready for bids in one week.

**Sanitary Sewage System and Sewage Pumping Station**, Borough of Westville, Gloucester County, N. J. Architects, Remington & Vosbury, 601 Market street, Camden, N. J. Owners, Borough of Westville, W. P. Atkins, Borough Clerk, Borough Hall, Westville, N. J. 8-inch cast iron force main, 5-inch, 8-inch, 10-inch, 12-inch terra cotta pipes, 6-inch, 8-inch terra cotta house under drains, manholes, flush tanks, electrically operated sewage pumping station, bond. Owners taking bids due June 20th, 8 P. M. (daylight saving). Deposit, \$15; refund, \$10.

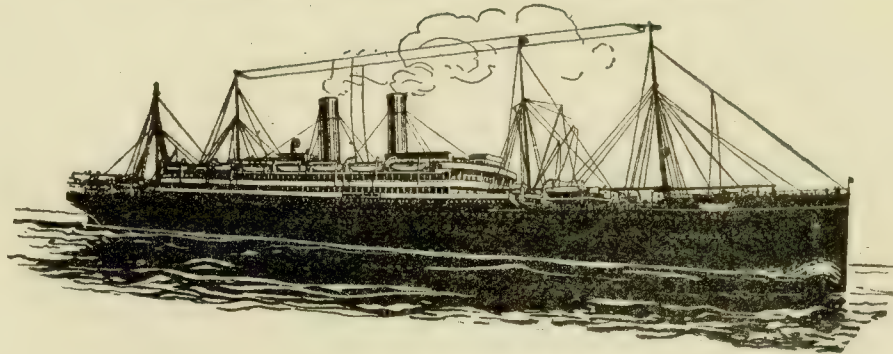
**Public School**, Broad and Delaware streets, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education of Woodbury, N. J., High School Bldg., S. Broad St., Woodbury, N. J. Brick, east stone, cut stone, reinforced concrete and steel, 3 stories and basement, 191x64 feet, wing 174x74 feet (heating, plumbing, electric and ventilators separate), cement and maple floors, hollow tile, safety treads, roof ventilators, ornamental iron work and stairs, floor hardener, bond, hollow metal and kalamein doors, hollow metal skylights, metal lath. Owners taking bids due June 21st at 7 P. M. (daylight).

**Electro Pneumatic Signal Tower**, Camden Terminal, Camden, N. J. Architect, S. T. Wagner, Reading, Terminal, Philadelphia. Owners, Atlantic City R. R., care of Reading R. R. Co., Twelfth and Market streets, Philadelphia. Brick, cut stone, steel, 2 stories, 17x34 feet, 1 story boiler room, 16x18 feet, hot water heat, electric light, slate roof, cement floors, hollow metal doors, bond, iron stairs and iron work. Architect taking bids due June 18th.

## ANNOUNCEMENT

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telligent persons who wish to visit the battlefields of France, the Shakespeare country, Scandinavia, the Land of the Midnight Sun, etc. A chance of a lifetime! So it would seem; but it is more than that. The company is building for a permanent business, setting a new standard of high-class ocean travel on a one-class basis. That this can be done at a fair margin of profit has already been proved and is further outlined in our prospectus. You'll find it extremely interesting.

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## New Jersey Contracts Awarded

**Shop Building (add.),** School of Industrial Arts, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, care of Mr. Fell, City Hall, Trenton, N. J. Brick, reinforced concrete, 2 stories, 60x125 feet, slag roof, concrete and wood block floors (heating, electric work and plumbing reserved). Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

**Rectory,** Trenton, N. J. Architects, P. L. Fowler & Co., Fitzcharles Building, Trenton, N. J. Owners, St. Andrew's Protestant Episcopal Church, Mr. W. Brown, Trenton, N. J. Frame, 2 stories and basement, 35x70 feet, slate roof, pine floors, hot water heat, electric light. Contract awarded to I. H. Clayton, 282 Bellevue avenue, Trenton.

## Miscellaneous Construction News

**Hotel,** Keystone Heights, Florida. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Senator Miller Hotel, Keystone Heights, Florida. Architects selected. Too early for details.

**Extension to Plant and Motor Truck Plant,** Fort Wayne, Ind. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, International Harvester Co., care of architect. Foundations and concrete work. Architects taking bids due June 16th.

**Hall of Chemistry,** Morgantown, W. Va. Architects, Paul A. Davis & Dunlap, 1713 Sansom street, Philadelphia. Owners, West Virginia University, care of State Board of Control, James S. Lakin, secretary, Charleston, W. Va. All bids rejected. Revised plans in progress. Owners will take new bids.

**Office (alts. and add.),** 837 King street, Wilmington, \$6,500. Architect, private plans. Owners, Wilmington & Philadelphia Traction Co., 834 Market street, Wilmington, Del. Brick, 1 story, 60x20 feet, slag roof, pine floors, electric lighting. Contract awarded to Hendle & Samworth, 1600 West Fourteenth street, Wilmington, Del.

## Proposals

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., June 9, 1923. Sealed proposals will be received at this office until 2 P. M., June 25, 1923, and then opened, for concrete sidewalks at the Public Health Service Hospital, Numbered 42, Perryville, Md., in accordance with drawings and specifications, copies of which may be obtained from the Superintendent of Construction, U. S. P. H. S. Hospital, Perryville, Md., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

## PAINTING STRUCTURAL STEEL WORK

BY A. ASHMUN KELLY

**S**TRUCTURAL steel may come to the job with or without the priming coat of paint. The practice at one time was uniformly to coat it, but this was found in most cases to be wrong, as the scale would loosen and remove the paint, besides which the paint was usually applied by careless, unskilled workmen, and had to be removed.

By allowing the unpainted metal to remain uncoated for some time before erection the weather caused much of the scale and dirt to fall off, and when it was time to coat it the metal was cleaned with steel brushes and then it received the paint properly.

This priming coat is usually applied just before assembling the parts. The best coating is red lead thinned out with linseed oil, the paint to be mixed fresh each day, as it will stiffen or harden if left too long after mixing, say over night. It is possible to mix as much as 33 lbs. of dry red lead with a gallon of oil, this making a good workable paint, for the coating should not be a mere film. A proper mix of red lead gives a hard and yet elastic coating, one that is thick, and yet will not crack. It fills the pores of the metal and adheres well to it.

Red lead prevents rusting, and water cannot penetrate it. This is why marine underwriters favor it, and why the hulls of vessels are primed with it, as also the locks on the Panama Canal. In short, practically all structural work is protected with red lead paint.

Steel structural work should have at least two coats of red lead paint, and each coat, no matter how many, should be slightly colored, in varying degrees, so that the inspector may readily detect faulty work. A little lampblack with the red lead will do for the purpose, and this black is itself a useful addition in securing a uniformity of the thickness of the film.

To secure the best results the structural steel should be made perfectly clean of all matter that can be removed, such as moisture, grease, scale, etc. The time given to this work is time profitably spent. Then, all small pinholes, cracks, fissures between plates, poles, etc., should be filled before applying the paint. In no case should two parts of bare metal meet, as that sets up local galvanic action, which leads to corrosion. Paint therefore every part of the whole surface. White lead, a carbonate of the metal lead, and at one stage of its manufacture an oxide, should not be used for priming iron or steel, nor should oxide of zinc paint, as it also is capable of eat-

ing into the metal. All the iron ore paints contain phosphorous and sulphur, and these substances are injurious to iron or steel. Burning, however, removes these inimical properties of the ore.

Asphaltum does not make a good coating, though it is sometimes employed on bridge steel construction. It is usually thinned out with benzine, which evaporates and leaves the painted surface rough and in a condition to catch the soot and dirt, which rain and other forms of moisture act upon to form acid that acts upon the metal and brings rusting.

Old painted iron work should be cleaned by scraping and burning off, and then be given a coat of turpentine or benzine, after which it may be painted.

The usual formula for making a red lead paint for iron or steel work is as follows: Take 25 lbs. of dry red lead and stir it gradually into one gallon of boiled linseed oil, or raw linseed oil. Then strain the paint. If extra quick drying is desired, then add about a gill of drying japan. But red lead is itself a strong drier, hence it is unusual to add any drying help to assist it. The above formula will give something over a gallon of paint, and it should cover about 1,000 square feet of average surface.

Graphite and lamp black are sometimes added to red lead paint, the purpose being to cause the red lead paint to work easier under the brush than the red lead paint alone will do, for it is a very stubborn liquid to spread out. Red lead paint should be frequently stirred, for it settles badly in the pot, though there are substances, such as pulverized abseptos, that will keep the heavy pigment in suspension, without injuring its wearing qualities.

—Building Age.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

"Camouflage" doesn't pay in advertising. Don't call your cannon a bit of landscape. Be honest and gain the confidence of the public.



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Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## ASBESTOS SHINGLES.

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.  
Emack, The John D. Co. ....Otis Bldg., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
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Well, J. H., Co. ....1304 Arch St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
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Well, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

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DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
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Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.  
34 S. 17th St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
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## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....18 S. 7th St., Phila.  
Pettit, Frank, Ornamental Iron Works.  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.  
Wayne Iron Works. ....Commercial Trust Bldg., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GRATES.

Pralatt Equipment Co. ....Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 51st St., Phila.

## HEATERS (Hot Water Service).

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.  
Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond St., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Baker Warehouse. ....Venango and G Sts., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

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Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard .....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

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Taylor, G. Herbert. ....Pennsylvania Bldg., Phila.

## OIL HEATERS.

Oil-O-Matic Heating Co. ....1610 Fairmount Ave., Phila.

## ORNAMENTAL IRON.

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Pettit, Frank, Ornamental Iron Works,  
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Wayne Iron Works. ....Commercial Trust Bldg., Phila.

PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

PHOTOSTATS.

Keystone Blue Paper Co. ....910 Filbert St., Phila.

Weber, F., Co. ....1125 Chestnut St., Phila.

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Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES

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Cox, Abram, Stove Co.,  
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Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

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## REFRIGERATORS.

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Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

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Asbestos Shingle, Slate and Sheathing Co.,  
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## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

Emack, The John D., Co. ....Otis Bldg., Phila.

ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

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Cyclone Fence Co. ....18 S. 7th St., Phila.

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DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co.,  
24th and Callowhill Sts., Phila.  
Philadelphia Transportation & Lighterage Co.,  
119 Walnut St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

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Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEETROCK (Wall Board)

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., & Co. ....10th and Columbia Ave., Phila.

## SHINGLES (Asbestos and Asphalt).

Asbestos Shingle, Slate and Sheathing Co.,  
2013 Market St., Phila.

## SLATE

Emack, The John D. Co. ....Otis Bldg., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS

Uhrig Brothers. ....528 E. Wishart St., Phila.

## STAIRS (Sheet Steel).

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STEAM SHOVEL CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## STEEL BASH.

McFarland-Meade Co., 70th and Kingsessing Ave.

## STONE.

John D'Lauro. ....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair. ....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Keystone Blue Paper Co. ....910 Filbert St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Well, J. H., Co. ....1315 Cherry St., Phila.

## VENTILATORS

Iona Ventilator Co., Inc. ....2621 W. Dauphin St., Phila.

## VENTILATING SYSTEMS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## WALL BOARD, COMPO BOARD

Ketcham, Howard .....3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock)

Pearce Fireproof Co. ....1345 Arch St., Phila.

Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

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Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
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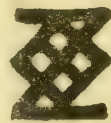
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Vol. XXXVIII, No. 25  
June 20, 1923

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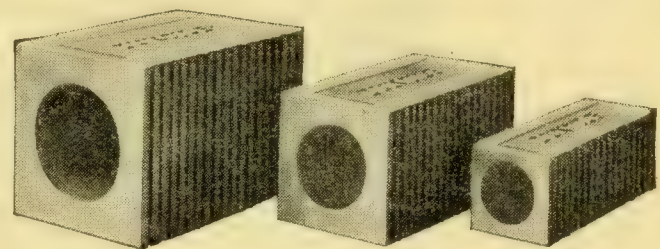
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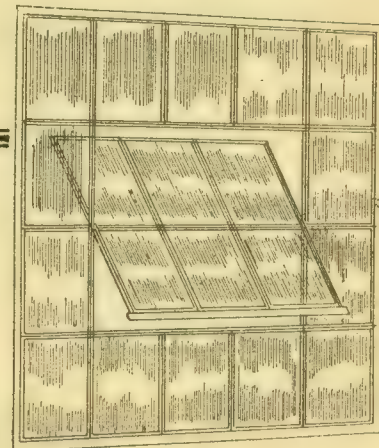
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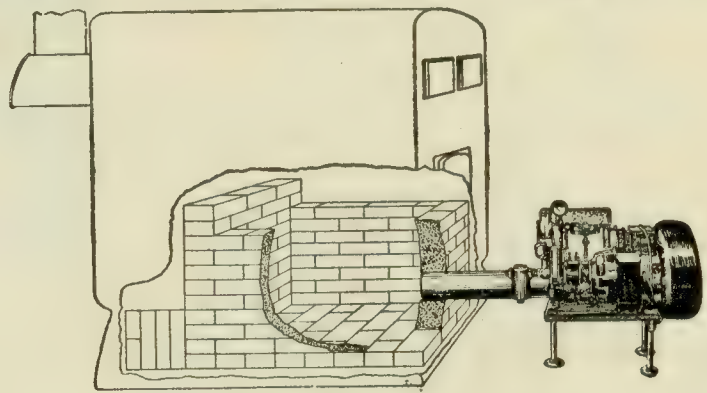
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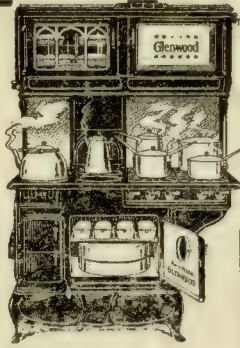


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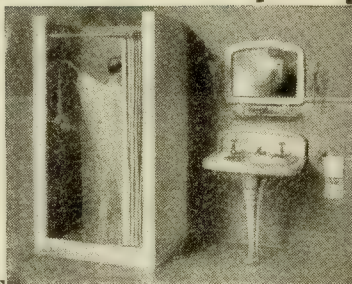


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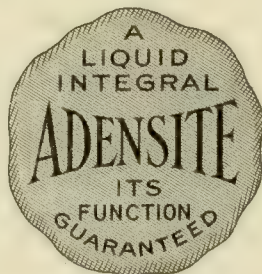
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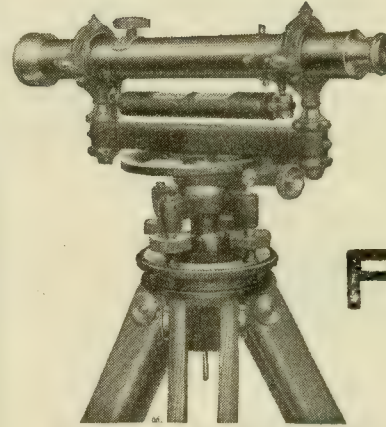
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 25

PHILADELPHIA  
June 20, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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## As The Editor Sees It



### GENERAL MARSHALL THINKS MORE GOOD THAN HARM MUST COME FROM CURTAILING CONSTRUCTION

**R**ESTRICTION of new building operations in accordance with the stabilization program of the American Construction Council is beginning to bring inquiries from building material producers, contractors, and labor organizations. Lumber manufacturers, for example, are pointing out that prices of lumber at the sawmills are 35 per cent. less than in 1920; and the lumber retailers have put out a statement showing that lumber retail prices are about 34 per cent. less than in 1920. Similar statements have been made in regard to other building materials, and it is maintained that building trade wages have not yet generally attained to the levels of the latter part of 1920. In view of these facts the National Lumber Manufacturers' Association invited General R. C. Marshall, Jr., general manager of the Associated General Contractors of America, to explain the reasons and the objects of the restrictive program, which he does in the following statement:

"Considering the purchasing power of the dollar today, as compared with 1913, building costs are not now prohibitive

but we are menaced by dangerous inflation. According to our index figures the cost of building in the Spring of 1920 was about 55 points higher than it is now, (1913 taken as 100, 1920 was 255 and 1923 is 200) and building material prices were about 90 points higher—index figures on a 1913 base of 100 being 300 for 1920 and 210 for 1923.

"While building trade wages are at the moment about 75 points higher than in 1913, they are not quite so high as they were in the latter part of 1920 and first part of 1921, but as labor efficiency falls off with increasing wage rates, labor production costs are rapidly mounting. The trend is unmistakably toward heavy increase in the total of building costs. The building permits issued in 200 cities in March amounted to \$397,000,000, an increase of about 50 per cent. over March 1922, and the volume of building now in progress dwarfs any previous records in the history of the country, being almost 75 per cent. greater than at any other time.

"We are undertaking this enormous expansion of building with a stationary if not shrinking labor supply, on account of the immigration restriction law, and with the material industries of the country practically at the limit of their productive capacity. There can be only one outcome of such a situation if it is allowed to persist. The cost of mater-

ials and labor will presently rise to prohibitive levels, and our enormous constructive program will collapse with a crash. If history is a good guide, it will take two or three years to recover, in spite of the fact that we are still at least a year's normal building behind the housing requirements of the country.

"It is commonplace to say that all industry is vitally related to construction. If this industry tumbles from an extraordinary peak of activity to a depth of extraordinary depression, the general results will be reflected in all the country's industry and commerce.

### Stabilizing Building Costs

"To us who are so situated as to see the hand-writing on the wall, there was no other choice than to attempt consciously to check the rise in building costs before they become prohibitive and destructive. We calculate that if all building projects for speculative selling can be deferred for a few months, and also all other large construction projects that are not of an emergency nature, we shall effect something of an equilibrium between supply and demand in the construction industry, and will be able to stabilize costs at present or, possibly, slightly lower levels.

"If we do this we think that about eighteen months of exceptional prosperity can be counted on in the construc-

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tion trades, and that from then on the building industry will be able gradually and comfortably to meet the new construction needs of the country. As we see it, the question simply is, will the country "go easy" on new building for two or three months and thereby insure itself a year and a half or more of exceptionally good business, without a terminal explosion resulting in widespread ruin and distress; or will it insist on plunging into mad carnival of rising costs and supernormal building volume which is sure to blow up in a few months and to be followed by two or three years of ruinous prostration?

"This attempt to prevent a giddy cost peak from which there will be no way down but by a suicidal leap, is something new in what you might call applied economics. It may not succeed and there may be untoward developments, but we are convinced that nothing that may come from this conscious effort to prevent disaster will be as bad as the disaster itself. Doubtless the restrictive policy may work hardship on many industrial plants and some workers, but of course in a general program of this kind it is impossible to do individual justice to thousands and tens of thousands of cases involved.

We can only hope to attain the general good, and that present individual sacrifices will be more than offset in the compensating benefits that will ensue. So far the appeal for the deferment of construction, wherever possible, has been generally responded to. Hundreds of millions of dollars of projects have been held up and the present prospect is bright that we shall be able to flatten out the ominous impending peak."

#### *Not Injurious to Lumber*

Wilson Compton, secretary and manager of the National Lumber Manufacturers' Association, commenting on General Marshall's statement, brings out the point that most of the building projects within the scope of the restrictive program are large city apartments, office buildings, hotels, and factory buildings, which do not require relatively much lumber. The restrictions will have but little effect on the various classes of construction into which lumber largely enters. Indeed, one effect may be to promote that sort of buildings, because during the curtailment period more labor and material may be made available for them at reasonable prices.

—*American Contractor.*

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A most important conference met in Cleveland, June 5, and the action taken should be watched in its development by every man interested in construction. A permanent national plan was evolved to provide the construction industry with sufficient bricklayers. Providing this plan works out, and there is no doubt that such a plan can be worked out, this meeting called by the Common Brick Manufacturers' Association and attended by such interests as masonry construction contractors' associations, building employers' associations, National Association of Builders' Exchanges, members of international bricklayers' union, the federal director of vocational education under the Smith-Hughes act, public and trade school representatives, representatives of the American Institute of Architects, is a mighty important event, the most important one recorded this week.

The basic consideration is the supply of building trades mechanics. The common brick manufacturers as an association are not only looking in a far sighted way to their own interests in seeing to it that men are trained to lay the product of their kilns, but they are looking in an unselfish manner to the practical benefit of the whole industry. At this conference, they called in representatives from all branches of construction. We assert this plan of training men will work out to the practical good of the entire industry. We can back our statements by the good which is actually being produced here and there now by the training schools for apprentices which have sprung up almost over night as it were. These are producing good results, though it must not be supposed that their hasty organization has in all cases resulted in 100 per cent. efficiency. Their great merit lies now in the fact that they were started to meet a crisis and that with such a sudden start they have functioned in the excellent manner they have.

A text-book, presumably for the educative guidance of bricklayers, will be prepared by Howard Briggs, who is vocational director of the Cleveland public schools, and will be published by the Common Brick Manufacturers' Association. The work done by the Cleveland bricklayers' school will doubtless serve as a guide in the actual laying out of the plan.

There are certain conditions which, through experience, have been proved essential to proper working out of apprentice system. One is that employer and employe be agreed on the justification and the necessity for the school and that they work in harmony with it. Another is that a man give full time to this work and see to it that boys and employers alike keep their contracts religiously.

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**Swimming Pool and Gymnasium Building**, School House Lane (38th Ward), Philadelphia. Architects, Zantzinger, Borie & Medary, 112 South Sixteenth street, Philadelphia. Owners, William Penn Charter School, 12th Street above Chestnut, Philadelphia. Stone, brick, cut stone, steel, 2 stories and basement, 213x65 feet, wing 46x50 feet, slate and slag roof, cement and maple floors, metal lath, tile and marble work, bond, iron work, waterproofing, miscellaneous equipment. Owners taking bids due June 27th.

**Building (alts.)**, Southeast Corner Twentieth and Chestnut streets, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Richard J. Seltzer, 1423 Locust street, Philadelphia. Brick, concrete, cement and steel, repairs to roof and heating, electric lighting, metal lath, marble work, copper sash, bond, iron work, painting and glazing, carpentry and mill work, plastering, plumbing. Architect taking bids due June 20th.

**Office Building (add.)**, Philadelphia and Reading Company, Oak Lane Station, Philadelphia. Owner, Ellwood Ivins, Tube Works, on premises. Frame. Plans in progress.

**Residences (2)**, East side Academy Road, North of Grange, \$3,500 each. Architect, private plans. Owner, John Grinnell, Torresdale, Philadelphia. Frame, 2 stories, 16x36 feet, hot water heat, electric light. Owner will build.

**Apartment (alts. and add.)**, 513-15 Burnham Road, \$5,000. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphia. Brick, 3 stories add., 4x49 feet, general alterations. Owner will build.

**Hotel**, Southeast Corner Broad and Spruce

streets, Philadelphia. Architect, H. E. Kennedy and Guy B. Johnson, 1324 Walnut street, Philadelphia. Owner, Louis H. Cahan, 1324 Walnut street, Philadelphia. Stone, steel, brick, concrete, terra cotta and limestone, 22 stories, 90x100 feet, 450 rooms, 450 baths, steam heat, electric lighting, tile and marble work, hollow metal skylights, fire doors, ornamental iron work, slag and slate roof, hardwood, composition and concrete and tile floors, elevators, roof ventilators. Plans in progress.

**Apartment and Store**, Southeast Corner Eighteenth and Venango streets, Philadelphia. Architect, Reuben Beard, Shubert Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 18x98 feet, slag roof, oak floors, hot water heat, electric light, metal lath, tile work, metal ceiling, iron work. Revised plans in progress. Ready in two weeks.

**Country Residence and Three-Car Garage**, Eleventh and Cheltenham avenue, Philadelphia. Architect, Reuben Beard, Shubert Building, Philadelphia. Owner, name withheld. Spanish type house, 2½ stories, 40x65 feet, hot water heat, electric light, Spanish tile roof, hardwood floors, tile work, mill work, glass, terra cotta, ornamental iron work. Preliminary plans in progress.

**Stable (alts. to Apartment House)**, Sixteenth and Jefferson streets, Philadelphia. Architect, T. B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, name withheld. General alterations. Plans in progress.

**Garage**, 6138 Columbia avenue, Philadelphia. Architect, P. S. Tyre, 1509 Arch street, Philadelphia. Owner, George L. Fisher, 6008 Jefferson street, Philadelphia. Brick, 1 story, 22x25 feet. Plans in progress.

**Loft Building**, Thompson, West of Eighth street, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick, masonry, steel and concrete work, 3 stories and basement, 53x55 feet, slag roof, pine floors, elevator shaft, cement work. Plans in progress.

**Store and Apartments (alts. and add.)**, Sixty-sixth and Woodland avenue. Architect, E. B. Medoff, Lincoln Building, Philadelphia. Owner, Solomon Berenson, care of architect.

General alterations and additions. Plans in progress.

**Residence (alts. and add.) to Apartment**, 3129-31 Powelton avenue, Philadelphia. Architect, E. B. Medoff, Lincoln Building, Philadelphia. Owner, J. Goldrich, on premises. General alterations and additions. Plans in progress.

**Bank Building (alts. and add.)**, Ridge avenue, Master and Twentieth streets, Philadelphia. Architect, W. Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Brown & Stevens, 510 South Broad street, Philadelphia. Stone, general alterations and additions. Plans in progress. Too early for details.

**Residences (32) (alts. and add.)**, Thirty-fourth and Sansom streets, Philadelphia. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, C. Yarnall Abbott, Broad and Race streets, Philadelphia. Stuccoed, general renovations, hot water heating, electric lighting, hardwood floors, tile and marble work. Architect ready for bids in a few days.

**Apartment Hotel**, Delancey and Bouvier streets, Philadelphia. Architects, Lackman & Murphy, Drexel Building, Philadelphia. Owner, name withheld. Brick, steel, stone and terra cotta, 8 stories, vapor heating, electric light, tile and marble work, hollow metal skylights, ornamental iron work, dumb waiters, roof ventilators, elevators. Architect ready for bids in one week.

**Residences (4)**, York Road and Spencer street, Philadelphia. Architect, Reuben Beard, 607 Shubert Building, Philadelphia. Owner, Charles Schneider, care of architect. Brick and steel, 2 stories, 15x40 feet, slag roof, hot water heat, electric light, hardwood floors, tile work. Architect ready for bids in one week.

**Building (int. alts. and add.)**, 103 West Roosevelt Boulevard, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Harry J. Avrach, 117 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 8x12 feet, hot water heat, electric light, tile work, bond, slag roof, yellow pine floors. Owner taking sub-bids due at once.

**Store and Rooming Houses**, Northeast Corner Seventeenth and Addison streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, J. Woodson, on premises. Brick, 3 stories, 18x54 feet, hot water heat, electric light, metal lath, rolled steel skylights, bond, flush bulks, iron work and stairs, slag roof, yellow pine floors. Plans completed. Owner will sublet.

**Residences (30-40)**, Sixty-seventh and Elmwood avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, J. Meloney and M. McWilliams, 6308 Sherwood road, Philadelphia. Brick, 2 stories, 18x30 feet, 16x39 feet, hot water heat, electric light, hardwood and cement floors, slag and slate roof, metal lath,

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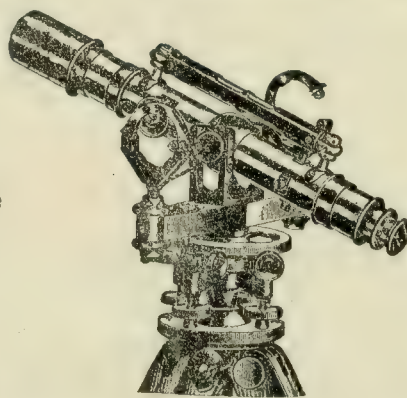
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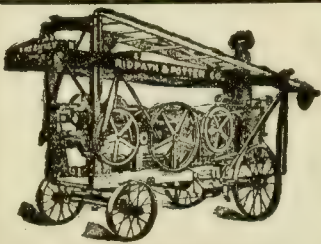
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tile work, garages in basement. Owner ready for sub-bids.

**Residences (26)**, Abbotsford Road and Schuyler street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, H. P. Anderson, care of architect. Brick, 2 stories, 18x32 feet, 16x40 feet, slag and tin roof, hardwood and pine floors, hot water heat, electric lighting, tile work. Owner taking sub-bids at the architect's office between 10 A. M. and 12 noon, and 1 P. M. and 4 P. M.

**Store and Apartments**, 1911 Chestnut street, Philadelphia. Architects, McLanahan & Becker, Bellevue Court Building, Philadelphia. Owner, W. Edgar Keith, 41 South Eighteenth street, Philadelphia. Rear addition, brick work, 1 story. General alterations. Architect taking bids in one week.

**Factory Building**, Sixty-eighth and Elmwood avenue, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, General Electric Company, Witherspoon Building, Philadelphia. Brick, steel, concrete, 1 story and basement, 197x600 feet, slag and Johns Mansville built-up roof, maple, cement, mastie, yellow pine floors, waterproofing, ornamental iron work, bond, rolled steel fire and tin-clad doors, rolled steel sash, metal lath (heating, electric, sprinklers, cranes, plumbing, railroad tracks reserved). Architects taking bids due June 29th.

**Bank Building**, 3959-61 Lancaster avenue, Philadelphia. Architects, associate, Charles C. Schweiker, 33 North Felton street, and Charles Wurster, Jr., 1542 North Twentieth street, Philadelphia. Owners, Lancaster Avenue Title & Trust Co., care of architects. Stone, brick, concrete, precast stone, cut stone, structural steel, miscellaneous iron work, vault doors, marble work, metal lath, fire doors, slag roof, 1 story, 35x42 feet, 26x42 feet, irregular, waterproofing, steam heat, electric lighting, ventilators, rolled steel skylights, linoleum. Architect taking bids.

**Stores and Apartments (alts. and add.)**, Southeast Corner Twenty-third and Lombard, Philadelphia. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, A. E. Jackson, on premises. Brick and stone, 2 stories, 20x50 feet, slag roof, pine and composition floors, steam heat, electric light extensions. Architect taking bids due June 25th.

**City Hall East Fire Room**, Philadelphia. Architect, private plans. Owners, Department of Public Safety, 215 City Hall, Director J. T. Cortelyou, City Hall. Installation of 4 new water tube boilers and necessary equipment for burning of fuel oil in new boilers, 2 boilers in court yard, together with alterations and repairs, etc. Owners taking bids due June 26th at noon (daylight saving).

**Pier No. 84**, Moyamensing Group, Delaware

River, Philadelphia. Architect, private plans. Owners, Department of Wharves and Docks, Room 211, 4 South Wharves, foot of Chestnut Street, Philadelphia. Completion with appurtenant work for Port Street Pier No. 84. Owners taking bids due June 27th noon (standard time). Deposit, \$25; refund, \$25.

**Building (alts. and add.)**, Germantown avenue and Horter street, Philadelphia. Architect, W. D. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Samuel Shapiro, 1910 North Thirty-first street, Philadelphia. Converting present building to garage, 3 stories, general alterations and additions. Architect taking bids due June 22nd.

**Church and Parsonage**, Twenty-second street, between Nassau and Bolton streets, Philadelphia. Architect, R. R. Neely, 2391 Spruce street, Philadelphia. Owners, Miller Memorial Baptist Church, care of Rev. Wilkens E. Jones, 2107 Master street, Philadelphia. Stone, 1 and 2 stories. Architect taking bids due as soon as possible.

**Bank**, Northwest Corner Eighth and Fitzwater streets, Philadelphia, \$25,000. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, V. D'Ambrosia, on premises. Limestone, granite, brick, 1 story, 39x52 feet, slag roof, composition and maple floors, gas and hot water heat, electric light, tile, marble and terrazzo work, plate glass, ornamental iron work. Owner will build.

**Residence and Store and Residences (5)**, Tabor Road and Wagner avenue, Philadelphia, \$32,000. Architect, private plans. Owner, Max J. Benamy, 5758 North Fifth street, Philadelphia. Brick, 2 stories, 34x29 feet, 11x10 feet and 16x29 feet, 13x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (4)**, North side Unruh street, West of Oakley street, \$19,000 total. Architect, private plans. Owner, William G. Isles, 806 Levick street, Philadelphia. Frame, 2 stories, 14x46 feet, hot water heat, electric lighting, oak and pine floors, tile work. Owner will build.

**Residences (4)**, 100 to 106 West Tulpehocken street, \$14,000 each. Architect, private plans. Owner, Joseph P. Tyrell, 3329 Krail street, Philadelphia. Stone, 3 stories, 16x20½ feet, 18x30½ feet, hot water heat, electric light, tile work. Owner will build.

**Residence (alts.)**, 2437 Bryn Mawr avenue, Philadelphia, \$10,000. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphia. Extensive alterations. Owner will build.

**Garage (add.)**, 3725 York road, Philadelphia, \$7,000. Architect, private plans. Owners, N. Nasfe & Son, 3729 York Road, Philadelphia. Brick, 1 story, 95x48 feet, slag roof, cement floors. Owner will build.

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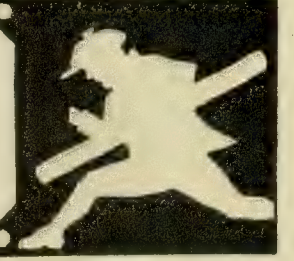


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**Residence (repairs)**, 6421 Overbrook avenue, Philadelphia, \$5,000. Architect, private plans. Owner, C. R. Hoodless, 1019 South Forty-eighth street, Philadelphia. General fire repairs. Owner will build.

**Residence and Store (add. and alt.)**, Northeast Corner Third and Diamond, \$2,500. Architect, private plans. Owner, D. Rothstein, 2014 Diamond street, Philadelphia. Brick, 3 stories add., 15x16 feet, general alterations. Owner will build.

**Storage Building, Loading Platform and Office**, Little Boy Court, Arch street, between Second and Third, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, name withheld. Brick and timber, 20x75 feet, 12x44 feet, slag roof, plank floors, electric light, hollow metal sash. Architect taking bids.

**Apartment House**, Germantown, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, name withheld. Brick, 3 stories, 20 apartments (4 rooms and bath), vapor heat, electric lighting, slag roof, hardwood and composition floors, hollow

metal skylights, Murphy beds. Architect ready for bids in ten days.

**Residence (alts.)**, 2115 Locust street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, J. K. Loughlin, Stephen Girard Building, Philadelphia. New brick front, electric work, plumbing, etc. Plans in progress.

**Supplies**, City of Philadelphia. Owners, City of Philadelphia, Thomas F. Armstrong, Purchasing Agent, 312 City Hall. Paints, varnishes, paints, oils, etc. Owners taking bids due June 27th at 11 A. M. (standard time), Room 329.

**Factory Building**, 107-15 Race street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, J. Frank Shellenberger, Front and Race Streets, Philadelphia. Brick, concrete, cut stone, 5 stories, 94x71 feet (plumbing, heating, electric, elevators, tanks reserved), slag roof, granite block floors, hollow tile, waterproofing, damp-proofing, terra cotta, iron work, bond, rolled steel fire and kalamein doors, rolled steel sash and skylights, tile and marble work, metal lath. Architect taking bids due June 25th.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Residences (22)**, North side Sixty-fifth avenue, West of Fourth street, \$132,500. Architect, private plans. Owners, Schneider & Roudenbush, 5701 North Seventh street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to H. W. Myers, 5814 Hasbrook avenue, Philadelphia.

**Store and Shop (alts. and add.)**, 1106-12 Spring Garden street, \$8,000. Architect, private plans. Owners, Woodward-Wanger Co., on premises. Brick, 1 story, 25x88 feet, general alterations. Contract awarded to F. T. Mercer Co., 1916 Brandywine street, Philadelphia.

**Residence**, Northwest Corner Rhawn street and Castor Road, \$5,350. Architect, private plans. Owner, Joshua M. Holmes, 6748 York Road, Philadelphia. Frame, 2 stories, 25x34 feet, electric lighting, oak and pine floors. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Foundry and Machine Shop**, Westmoreland and Stokley streets, Philadelphia. Architect, private plans. Owners, Kitson Co., 1934 Market street, Philadelphia. Brick and steel, 1 story, 61x166 feet, 62x192 feet, steam heat, electric lighting, slag roof, cement floors, rolled steel sash and skylights, ornamental iron work. Contract awarded to William Steele Sons, 219 North Broad street, Philadelphia.

**Boiler House**, Tenth and Oxford streets, Philadelphia. Architect, private plans. Owners, Frank Schobel Co., on premises. Brick and steel, 1 story, 48x73 feet, slag roof, electric light, cement floors, rolled steel sash and skylights, ornamental iron work. Contract awarded to William Steele & Son, 219 North Broad street, Philadelphia.

**Manufacturing Building**, American and Somerset streets, Philadelphia. Architect, private plans. Owners, North Brothers, care of builder. Reinforced concrete, 5 stories and basement, 60x122 feet, steam heat, electric light, slag roof, cement floors, rolled steel sash and skylights, sprinklers. Contract awarded to William Steele & Sons, 219 North Broad street, Philadelphia.

**Manufacturing Building**, Twenty-third and Allegheny avenue, Philadelphia. Architect, private plans. Owners, H. F. Walliser Co., 1015 North Bodine street, Philadelphia. Brick and steel, 2 stories and basement, 65x225 feet, steam heat, electric light, slag roof, cement floors, elevators, rolled steel sash and skylights, ornamental iron work. Contract



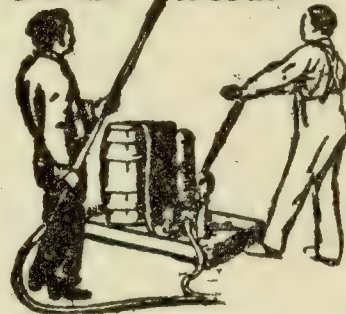
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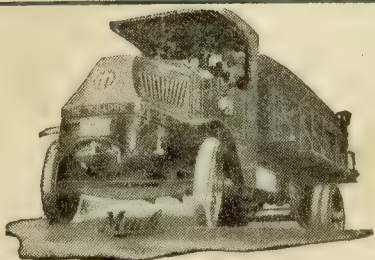
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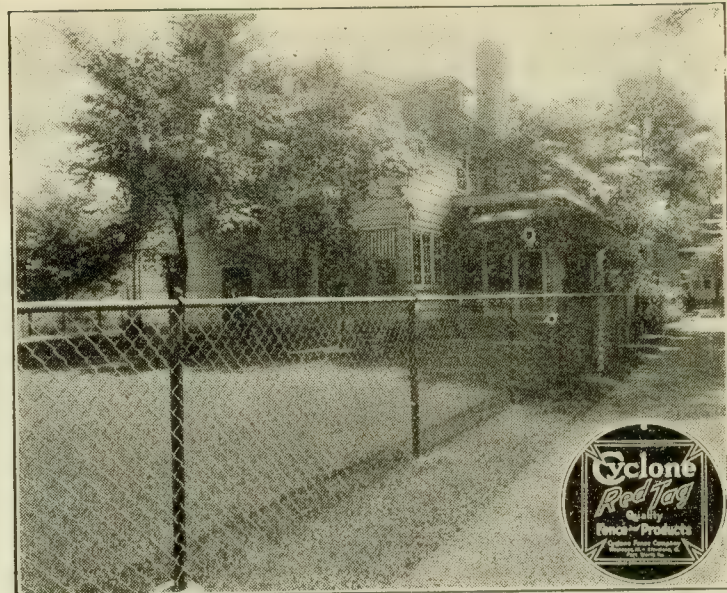
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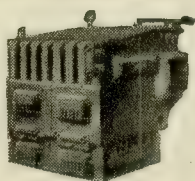
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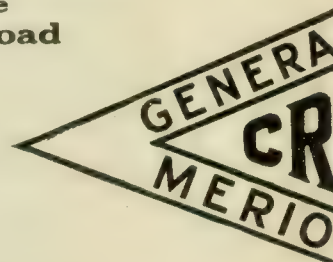
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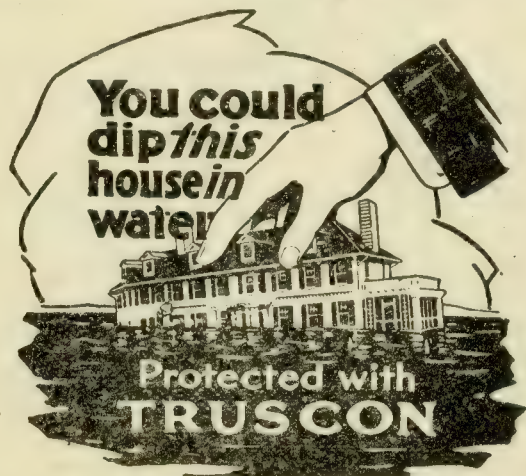
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**Mill Building and Dye House**, B and Clearfield streets, Philadelphia. Architect, private plans. Owners, Colonial Knitting Mills, on premises. Brick, concrete and steel, 3 and 1 stories, 81x176 feet, 50x100 feet, steam heat, electric light, rolled steel sash, elevators, ornamental iron work. Drawing plans. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

**Mill (add.)**, Fountain street, Manayunk, Philadelphia. Architect, Horace M. Hokanson, Presser Building, Philadelphia. Owners, A. T. Baker Co., Manayunk, Philadelphia. Brick, steel, 2 stories, 126x60 feet, steam heat, electric light, slag roof, cement and yellow pine floors, rolled steel sash, fire doors, waterproofing, ornamental iron work. Contract awarded to Barclay White Co., Presser Building, Philadelphia.

**Stores (4) and Apartments**, Northeast Corner Nineteenth and Berks streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 3 stories, 18x96 feet, stone foundations, slag roof, yellow pine floors, electric lighting, metal lath, hollow metal skylights, metal bulks. Contract awarded to Dickinson Const. Co., 1118-20 Dickinson street.

**Stores (5) and Apartments**, Southwest Corner Eighteenth and Master streets, Philadelphia. Architect, William L. Charr, 149 South

Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 3 stories, 16x102 feet, stone foundations, electric light, hollow metal skylights, metal bulks, metal lath, slag roof, yellow pine floors. Contract awarded to Dickinson Const. Co., 1118-20 Dickinson street.

**Stable and Shed**, 820-24 North Third street, Philadelphia, \$40,000. Architect, private plans. Owners, American Stores Company, 424 North Nineteenth street, Philadelphia. Brick (second class), 1 story, irregular size, slag roof, steam heat, electric light, concrete floors. Contract awarded to A. B. Kister, 1204 Chancellor street, Philadelphia.

**Dye House**, West side Witte street, South of Allegheny avenue, \$13,000. Architect, private plans. Owners, Brehm & Stehle, Trenton and Allegheny avenues, Philadelphia. Brick, basement, slag roof, cement floors. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

**Bank (alts.)**, Southwest Corner Broad and Market streets, Philadelphia, \$10,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Third National Bank, on premises. Cement work, metal lath, plastering, carpentry, mill work, tile and marble work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

**Boiler House**, Southwest Corner Mitchell and Rector streets, Philadelphia, \$7,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Kaufman Plush Co.,

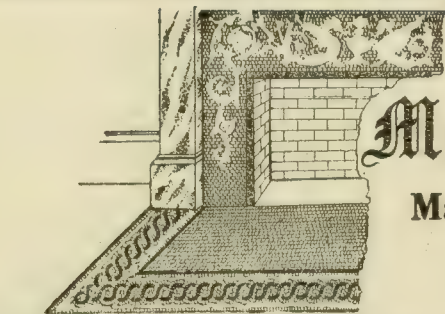
Pensdale and Mitchell streets, Philadelphia. Brick, 1 story, 50x31 feet.

**Dye House**, brick, 1 story, 54x51 feet, \$9,000. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Residence**, Southwest Corner Eighty-second and Crothers avenue, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owners, Rocco Franchitti, Eighty-second and Crothers avenue, Philadelphia. Brick, 2 stories, 17x38 feet, hot water heat, electric light, tile work, slag roof, pine floors. Contract awarded to Philip Pinto, 1319 Tasker street, Philadelphia.

**Residence (alts. and add.)**, 1924 Rittenhouse street, \$8,700. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Harold Larzelere, 1219 Vine street, Philadelphia. Brick, steel, cut stone, warm air heat, electric light, metal lath, tile work, bond, iron work, tin roof, pine and oak floors. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

**Apartment (alts. and add.)**, 2118 North Nineteenth street, Philadelphia, \$5,000. Architect, Reuben Beard, Shubert Building, Philadelphia. Owner, Mrs. Miller, care of architect. Carpentry, mill work, plastering, painting and glazing, heating extension, lighting extension, general alterations. Contract awarded to Charles H. Booker, 2257 North Uber street, Philadelphia.



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**Residence (add.)**, 323 South Camac street, Philadelphia, \$5,000. Architects, McLanahan & Bencker, Bellevue Court Building, Philadelphia. Owner, Arthur V. Morton, on premises. Brick, 2 stories, 7x26 feet, tin roof, hot water heat, pine floors. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

**School**, 815 Montrose street, Philadelphia, \$6,000. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owners, Our Lady of Good Counsel Church, 816 Christian street, Philadelphia. Brick, third story add., 27x21 feet, slag roof, pine floors. Contract awarded to R. Parisi, 1332 South Tenth street, Philadelphia.

**Residence**, West side Fairhill street, South of Lindley avenue, \$5,000. Architect, private plans. Owner, F. G. Mastriena, 4303 North Third street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to Fred W. Biddle, 4651 North Fifth street, Philadelphia.

**Store and Storage Building (alts. and add.)**, 906-08 Carpenter street, Philadelphia, \$5,000. Architect, private plans. Owners, D. Fante & Sons, 1006 South Ninth street, Philadelphia. Brick, 1 story, 10x13 feet, 1 story, 40x100 feet, and 3 stories, 20x15 feet, general alterations. Contract awarded to Camillo Fante, 1006 South Ninth street, Philadelphia.

**Residence**, East side Cottage street, North of Hartel street, \$4,900. Architect, private plans. Owner, Fred Geyer, 1029 East Susquehanna avenue, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, oak and pine floors. Contract awarded to A. Mignone, 7746 Ditman street, Philadelphia.

**Heating Plant (add.)**, Northeast Corner Sixty-fourth and Lebanon avenue, \$4,460. Architect, private plans. Owner, Lewis Jones, on premises. Chimney stack, brick, 125 feet high. Contract awarded to H. W. Kellogg Co., 90 West street, New York.

**Residence and Store (add.)**, 1820 South Thirteenth street, Philadelphia, \$4,000. Architect, private plans. Owner, John Camero, 1640 South Thirteenth street, Philadelphia. Brick, 3 story add., 12x18 feet, slag roof, electric work. Contract awarded to M. Cipriano, 1922 South Seventeenth street, Philadelphia.

**Garage**, North side Fifteenth street, South of Cayuga street, Philadelphia, \$5,000. Architect, private plans. Owner, Margaret C. McLaughlin, 1502 West Cayuga street, Philadelphia. Brick, 1 story, 100x18 feet, slag roof, cement floors, electric work. Contract

awarded to R. L. J. Riling, 1425 West Venango street, Philadelphia.

**Residences (2)**, North side Bleigh street, East of Claridge, \$6,500 each. Architect, private plans. Owner, Harry Wege, Burholme, Philadelphia. Frame, 3 stories, 16x36 feet, hot air heat, electric light. Contract awarded to United Home Builders Corporation, Lawn-dale, Philadelphia.

**Residence**, Bingham street, South of St. Vincent, Philadelphia, \$6,500. Architect, private plans. Owner, Irwin G. Cooper, Bustleton, Philadelphia. Frame, 2 stories, 20x28 feet, hot air heat, electric light. Contract awarded to United Home Builders Corporation, Lawndale, Pa.

**Residence (add.)**, 606 West Erie avenue, Philadelphia, \$7,000. Architect, D. W. Reeve, 5539 North Third street, Philadelphia. Owner, Dr. D. V. Besser, 1739 Fairmount avenue, Philadelphia. Brick, 2 stories, 18½x20 feet, 2 stories, 16x12 feet, electric lighting, oak and pine floors. Contract awarded to Thomas Dalley, 329 East Wyoming avenue.

**Building (alts.)**, South side Bainbridge street, East of Fifth, \$7,000. Architect, private plans. Owners, Neighborhood Center Corporation, on premises. General alterations. Contract awarded to Manor Building Co., 5532 Laurens street.

**Residence**, Southwest Corner Hellerman and Bingham streets, \$6,500. Architect, private plans. Owner, Samuel F. Shaw, Hellerman and Bingham streets, Philadelphia. Brick, 2 stories, 16x60 feet, hardwood floors, electric light. Contract awarded to Jacob Gaertner, 7225 Oxford avenue.

**Residences (2) (alts. and add.)**, 1906-10 Panama street, \$6,500 each. Architect, private plans. Owner, Mrs. William Baker Elliott, 2107 Pine street, Philadelphia. Brick, 3 stories, 13x12 feet, slag roof, oak and pine floors, electric work, general alterations. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residence (alts.)**, 326 Allen's Lane, Philadelphia, \$4,000. Architect, private plans. Owner, E. Stanley Richardson, 423 Wister street, Philadelphia. General alterations. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

**Storage Building (alts. and add.)**, 107-11 Bread street, \$3,500. Architect, private plans. Owner, Samuel Burkowitz, 153 West Susquehanna avenue, Philadelphia. Brick, 5 stories, 4½x16 feet, general alterations. Contract awarded to Clayton Lofland, 229 North Water street, Philadelphia.

**Store and Residence (alts.)**, 5531-33 Germantown avenue, \$5,500. Architect, private plans. Owners, Lentz & Heintag, 5565 Germantown avenue, Philadelphia. General al-

terations. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

**Residence**, South side Montour street, North of Bleigh, \$4,800. Architect, private plans. Owner, Robert Sharpe, on premises. Brick, 2 stories, 24x40 feet, slag roof, oak and pine floors. Contract awarded to F. B. Naylor, Clementine, N. J.

**Residence**, South side Jackson street, West of Brill street, \$4,000. Architect, private plans. Owner, H. Bandal, 853 East Ontario street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, oak and pine floors. Contract awarded to James Clarkson, 850 East Ontario street.

**Residences (2)**, South side Lyons avenue, East of Eighty-first street, \$4,000 each. Architect, private plans. Owner, Henry Schwartz, 116 South Bread street, Philadelphia. Brick, 2 stories, 16x32 feet, pipeless heater, electric lighting. Contract awarded to J. Edmund Emick, 1317 Widener Building.

**Workshop**, 713-15 North Second street, Philadelphia, \$3,800. Architect, private plans. Owner, Lewis Brenner, on premises. Brick, 1 story, 20x120 feet, pine floors, electric lighting. Contract awarded to Neiman Const. Co., 3301 Germantown avenue.

**Store and Storage**, Southwest Corner Eleventh and Latona streets, \$5,000. Architect, private plans. Owner, Nicola De Francisco, 1008 Annin street, Philadelphia. Brick, 3 stories, 16x55 feet, slag roof, pine floors. Contract awarded to S. Tasca, 932 Ernest street, Philadelphia.

**Garage**, 4618-20 James street, Philadelphia, \$4,800. Architect, private plans. Owner, Pasquale Valetto, 4622 James street, Philadelphia. Brick, 1 story, 38x100 feet, slag roof, cement floors. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Residence and Store (add. and alts.)**, 5246 North Fifteenth street, \$4,000. Architect, private plans. Owner, J. F. Davis, 5446 Angora street, Philadelphia. Brick, 1 story, 16x9 feet, general alterations. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

**Garage**, 2315 North Fifteenth street, Philadelphia, \$4,500. Architect, private plans. Owners, Frank S. Jones, Thirty-fifth and Powelton avenue, Philadelphia. Brick, 1 story, 16x42 feet, slag roof, cement floors. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Residences (2) (repairs)**, 1216-18 South Sixteenth street, \$3,000. Architect, private plans. Owner, L. Verna, 1216 South Sixteenth street, Philadelphia. General repairs. Contract awarded to Frank Lucci, 1603 Ellsworth street.

**Garage**, East side Amber street, South of

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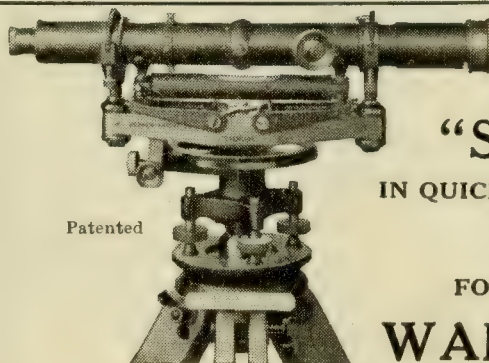
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Venango street, \$2,690. Architect, private plans. Owners, Gill Glass Co., Amber and Venango streets, Philadelphia. Brick, 1 story, 24x33 feet, slag roof, cement floors. Contract awarded to Edward C. Sherry, 1512 North Second street.

**Building (repairs)**, Northwest Corner Twenty-third and Race streets, \$2,195. Architect, private plans. Owner, William F. Powell, on premises. General fire repairs. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Bank (alts.)**, 415 Chestnut street, Philadelphia, \$6,000. Architect, private plans. Owners, Philadelphia Trust Company, on premises. Mezzanine floors, concrete work, plastering, painting. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

**Garage**, 2117 South Sixty-seventh street, Philadelphia, \$3,000. Architect, private plans. Owner, Mrs. Pavan, 2121 South Sixty-seventh street, Philadelphia. Brick, 1 story, 82x16 feet, slag roof, cement floors. Contract awarded to F. M. Cockerill, 2242 St. James street.

**Residence (alts.)**, 5309 Gainer Road, Philadelphia, \$3,000. Owner, William Crowe, on premises. General alterations, carpentry, mill work. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street.

**Residences (6) (add.)**, 233-43 West Wensley street, \$2,250. Owner, A. Strauss, 233 West Wensley street, Philadelphia. Brick, 1 story, 12x8½ feet, slag roof, pine floors. Contract awarded to M. Millstine, 448 North Marshall street.

**Garage and Lodge**, Northwest Corner Tasker and Taney streets, \$2,700. Architect, private plans. Owner, John Hegerich, 2631 Dickinson street, Philadelphia. Brick, 2 stories, 16x25 feet, slag roof, cement and pine floors. Contract awarded to George H. McCurdy, 1918 South Fifteenth street.

**Garage (alts.)**, 1903-05 Jackson street, Philadelphia, \$2,500. Owner, S. Nelson, 1905 Jackson street, Philadelphia. General alterations. Contract awarded to George H. McCurdy, 1918 South Fifteenth street.

**Building (alts.)**, Northwest Corner Third

and Montgomery avenue, \$2,200. Owner, M. Felt, on premises. General alterations. Contract awarded to M. Lesse, 603 Wolf street, Philadelphia.

**Residence (alts.)**, West side Lawnton avenue, South of Sixty-ninth avenue, \$2,000. Architect, private plans. Owner, Charles H. Jacobs, on premises. General alterations. Contract awarded to William J. Gruhler & Co., 219 High street.

**Residence and Office (add. and alts.)**, 6147 Ridge avenue, \$2,000. Architect, private plans. Owner, J. McVey, on premises. Brick, 1 story, 16x17 feet, general alterations. Contract awarded to E. K. Tomlinson, 521 Green Lane, Philadelphia.

**Garage**, East side Scotsford Road, North of Kitchen Lane, \$2,000. Owner, Arthur E. Brown, on premises. Stone, 1 story, 21x21 feet, cement floor, electric lighting. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

## Pennsylvania Construction News

**Residence**, Cable, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, Roy Gleason, Shamokin, Pa. Brick and hollow tile, 2½ stories, 32x36 feet, slate roof, hardwood floors, vapor heat, electric light, plumbing. Plans in progress.

**Residence**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, D. W. Rockefeller, Sunbury, Pa. Brick, hollow tile, 3 stories, 46x54 feet, slate roof, hardwood floors, vapor heat, electric light, plumbing, incinerator. Plans in progress.

**Manufacturing Building**, Martin street, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Frank Banko, rear 438 Wyandotte street, Bethlehem, Pa. Brick, 2 stories, 40x85 feet, slag roof, wood and concrete floors, steam heat, electric light, steel sash, floor hardener, probably elevators. Owner taking sub-bids.

**Church**, Gettysburg, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, First Methodist Episcopal Church, Rev. H. Daniels, Gettysburg, Pa. Preliminary plans in progress.

**Twin Residences**, Cherko street, South Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, P. N. Ritter, 817 Cherko street, South Bethlehem, Pa. Brick, 2½ stories, 40x50 feet, slate roof, hardwood floors, hot water heat, electric light. Plans in progress.

**Apartment House (alts.)**, Fernwood, Dela-

ware County, Pa. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, M. Needleman, 1710 South Fifth street, Philadelphia. Frame, 3 stories, 16x66 feet, hot water heat, electric light, hollow metal skylights, plastering, plumbing, pine floors, cement work. Plans completed. Owner ready for general bids.

**Garage and Shelter Shed**, West Chester, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, R. Herscheimer, West Chester, Pa. Stone, 1½ stories, hot water heat, electric light, shingle roof, cement floors. Plans in progress.

**Nurses' Home**, Gettysburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owners, Werner Hospital, care of architect. Brick, 2 stories, 48x60 feet, slate roof, composition floors, steam heat, electric light, tile work. Architect ready for bids.

**Sunday School and Parsonage**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, First Reformed Church, Sunbury, Pa. Brick and stone, 3 stories, 95x52 feet, 32x40 feet, slate roof, maple floors, concrete work, hot water heat, electric light, plumbing, tile work, rolled steel sash, structural steel, iron work. Architect ready for bids in one week.

**Club House**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Susquehanna Valley Country Club, W. H. Rohrbach, chairman Building Committee, Fifth and Market streets, Sunbury, Pa. Architect will be ready for bids in one week.

**School**, Watsonstown, Pa. Architect, W. H. Lee, 32 South Seventeenth street. Owners, Johnstown School Board, David L. Bly, president, and Frank E. Kirk, secretary, Watsonstown, Pa. Brick, stone, 3 stories, 75x70 feet, built-up roof, pine floors, unit system heating, electric lighting, reversible sash, iron and steel work. Will be ready for bids in one week.

**Residence and Store**, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Walter Spadt, 6211 High street, Bethlehem, Pa. Brick, 2 stories, 25x50 feet, slag roof, pine floors, steam heat, electric light. Owner taking bids.

**Grading, Paving and Curbing**, Steelton, Pa. Owners, Borough of Steelton, care of H. R. Rupp, Borough Secretary, 114 Walnut street, Steelton, Pa. Grading, curbing and paving. Owners taking bids due July 5th at 4 P. M.

**Junior High School**, Seitz avenue and Berwick street, Easton, Pa. Architects, William Michler and J. W. Shnyder, Drake Building, Easton. Owners, School District, City of Easton, Pa., R. E. Peifer, secretary, 30 North Second street, Easton, Pa. Stone, 2 stories and basement, 110x235 feet, maple floors, con-

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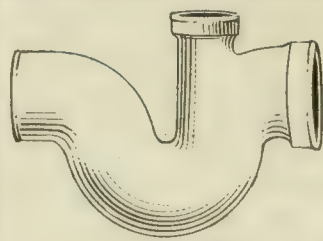
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**Residences (8)**, Geopp and Main streets, Bethlehem, Pa., \$40,000. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. H. Weiner, 39 West Broad street, Bethlehem, Pa. Brick, 2 stories, 40x140 feet, slag roof, wood floors, steam heat, electric light. Owner taking bids due as soon as possible.

**Bridge**, Reading, Pa. Owners, County Commissioners, care of John P. Wanner, Court House, Reading, Pa. Reinforced concrete, 5 spans, 106 feet; 2 spans, 40 feet; 1,057 feet long, 70 feet wide. Deposit of \$200.00 and certified check for \$20,000 required. Owners taking bids due June 29th at 10 A. M.

**School**, Whitehall Township, Lehigh County, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Whitehall Township School Board, M. Heilman, secretary, care of architects. Brick, 2 stories, composition roof, hardwood floors (heating, electric work and plumbing reserved), metal lath, hollow tile. Low bidder: Franklin Goldsmith, Catasauqua, Pa.

**School (alts. Garage and Basement)**, Merion, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, School Board of Lower Merion Township, Merion, Pa. Plastering, cement work, carpentry and mill work, painting and glazing. Architect taking bids due June 21st at noon.

**Rectory**, Mt. Union, Pa., \$100,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Catherine's Roman Catholic Church, care of Rev. Father Kerkoska, Mt. Union, Pa. Brick, 2½ stories, 32x35 feet, asbestos shingle roof. Plans in progress.

**Parochial School and Auditorium**, Nineteenth and Providence avenue, Chester, Pa., \$200,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Robert's Roman Catholic Church, care of Rev. Robert J. Thompson, Chester, Pa. Stone, 3 stories, 65x160 feet, will contain 16 class rooms and gymnasium, auditorium, 1 story, 40x117 feet, slate roof, steam heating, electric lighting. Plans in progress.

**School**, Rosemont, Pa., \$80,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Thomas' Roman Catholic Church of Villa Nova, Pa., care of Rev. J. J. Hasson, Rosemont, Pa. Stone, 2 stories, 60x90 feet, slate roof. Plans in progress.

## Pennsylvania Contracts Awarded

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. York County, Route 230, Heidelberg Township,

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\$127,825.47. Contract awarded to W. T. Staats, 5403 Diamond street, Philadelphia.

**Warehouse and Pipe Shed**, Lansdowne, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Keystone Supply Co., Lansdowne, Pa. Brick, 1 story, 256x96 feet, 32x112 feet, composition roof, cement and maple floors, safety treads, metal ceilings, cold water painting, dampproofing, iron work, bond, tile and marble work, metal lath (heating, electric lighting and plumbing reserved). Contract awarded to H. H. Conway, 5800 Walnut street, Philadelphia.

**Thomas Rankin Patten Masonic Boys' Institute**, Elizabethtown, Pa. Architect, E. A. Weightman, Heed Building, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Brick, cut stone, reinforced concrete and steel, 2½ stories, 90x59 feet, slate roof, composition, cement and maple floors, hot water heat, electric lighting, metal lath, metal weather strip, bond, iron work. Contract awarded to Hughes Foulkrod Co., Commonwealth Building.

**Apartment House**, Lansdowne, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, name withheld. Brick, hollow tile and stucco, 3 stories and basement, 125x56 feet, slag roof, hardwood floors, terra cotta, iron work, cement work, tile work, electric lighting, hot water or vapor heating. Contract awarded to E. Harris Smith, Lansdowne, Pa.

**Store Building**, Houtzdale, Pa. Architect, David Levy, Real Estate Trust Building, Philadelphia. Owner, J. Luxemburg, Houtzdale, Pa. Brick and stone, 1 story and mezzanine, 67x67 feet, asbestos roof, oak floors, waterproofing, flush bulks, steam heat, electric light, metal lath. Contract awarded to Brishin Lumber Co., Brishin, Pa.

**Residence**, Easton, Pa., \$10,000. Architect, private plans. Owner, I. M. Kahn, 104 Spring Garden street, Easton, Pa. Frame, 2 stories, 33x71 feet, slate roof, pine floors, vapor heat, electric light. Contract awarded to C. L. O'Brien Co., 456 Berwick street, Easton, Pa.

**Bungalows (30)**, Highland Park, Lehigh County, Pa., \$100,000. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Lehigh Real Estate Co., 34 South Fifth street, Allentown, Pa. Brick, 1½ stories, 20x45 feet, slate and shingle roof, wood floors. Contract awarded to B. Birkel, R. F. D. 99, Box 2, Allentown, Pa., and J. E. Stephen, Allentown, Pa.

**Residences (250)**, Lewistown, Pa., \$1,100,000. Architects, The Ballinger Co., Twelfth

and Chestnut streets, Philadelphia. Owners, Viscoes Co., Lewistown, Pa. Brick, concrete block, 2 stories, 18x30 feet, pipeless heat, electric light, asphalt roof, pine floors. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

**Church**, Rosetto, Pa. Architect, H. C. Hammer, 1716 Spring Garden street, Philadelphia. Owners, Our Lady of Mt. Carmel, care of Rev. P. Montinano, Wind Gap, Pa. Stone, 1 story and basement, 48x96 feet, slate roof, steam heat, electric lighting. Contract awarded to Walton Ede, Pen Argyl, Pa.

**Church**, Wind Gap, Pa. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, care of Rev. P. Montinano, Wind Gap, Pa. Stone and frame, 1 story and basement, 52x74 feet, slate roof, pine floors (pipeless heating reserved), electric light. Contract awarded to Walter Ede, Pen Argyl, Pa.

**Residence (alts. and add.)**, Philipsburg, Pa. Architect, G. S. Idell, 1705 Chestnut street, Philadelphia. Owner, T. J. Lee, Philipsburg, Pa. Frame, 2½ stories, 40x40 feet, asbestos shingle roof, hardwood floors, plumbing and tile work. Contract awarded to W. C. Rambo, Philipsburg, Pa.

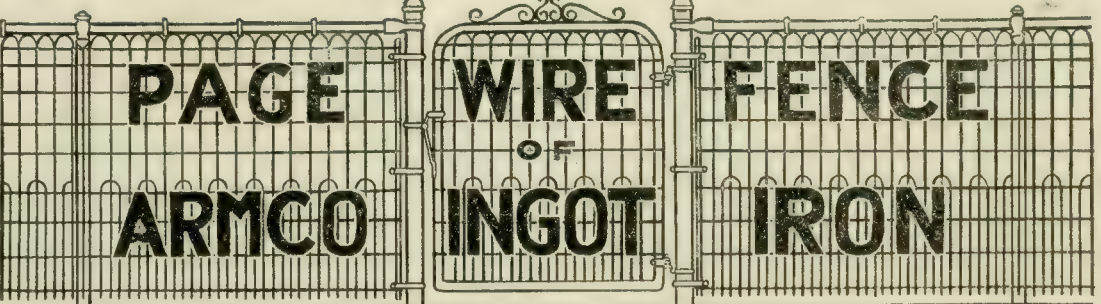
**Residence (alts.)**, Ardmore, Pa. Architects, Stewartson & Page, 315 South Fifteenth street, Philadelphia. Owner, Theodore W. Reath, on premises. Stone, cut stone, carpentry, hardwood, metal lath, tile and marble work, plastering, plumbing, painting and glazing, bond, ornamental iron work. Contract awarded to H. P. Wolfe, Bryn Mawr, Pa.

**Grade School (add.)**, North Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Contract awarded to Roy Randall, Horsham, Pa., \$71,672.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg, Pa. Clearfield County, R-59, Pike Township, \$22,656.05. Contract awarded to Mason & Savage, Warren, Pa.

## New Jersey Construction News

**Group of Buildings**, near Blackwood, Camden County, N. J., \$500,000. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Camden County Tubercular Hospital,



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Board of Chosen Freeholders, Court House, Camden, N. J. Brick, fireproof, various dimensions. Plans in progress.

**Store and Apartment (alts. and add.),** 423 Broadway, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Bernard Brinn, 437 Broadway, Camden, N. J. Brick, 2 stories, 22x17 feet, tin roof, hardwood and pine floors, hot water heat, electric light, tile work, general interior alterations, metal ceilings. Plans in progress.

**Store and Apartment,** Glassboro, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Martin Sherwood, care of architect. Brick, 2 stories, 43x43 feet, slag roof, pine floors, steam heat, electric light, store fixtures. Plans in progress.

**School,** Atlantic County, N. J., \$250,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Reinforced concrete, 3 stories, 42x120 feet. Architect selected. Too early for details.

**Hotel,** Chelsea, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Fireproof construction, 14 stories, 120x150 feet, concrete roof, hollow tile, metal lath, steam heat, electric light, tile and terrazzo work. Sketches in progress.

**High School,** North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owner, School Board, care of Thomas B. Akarman, North Wildwood, N. J. Brick, 3 stories. Architect ready for bids in one week.

**Apartment,** Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, Mr. Brilliant, States avenue, Atlantic City, N. J. Fireproof construction, 6 stories, 40x112 feet, slag roof, hardwood floors, hollow tile, electric light, metal lath, tile work. Will be ready for bids this week.

**Church,** Ventnor avenue, Ventnor, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, Methodist Episcopal Church, care of Rev. Hann, North Trenton avenue, Atlantic City. Stone, 1 story and basement, 65x108 feet, tile roof, hardwood floors, steam heat, electric light, tile work. Revised plans in progress.

**Hotel,** Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, Mr. Unille, care of architect. Fireproof, 6 stories, 50x90 feet, composition roof, pine floors, hot water heat, electric light, metal lath, tile work. Architect will be ready for bids in ten days.

**Nurses' Home,** Glen Gardner, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, Dr. English, Trenton, N. J. Hollow tile and stucco, 2½ stories and basement, 30x100 feet, tile roof, hardwood floors, hollow tile, roof ventilators, tile and marble work. All bids rejected. Architects will take sub-bids.

**Tuberculosis Infirmary (add.),** Glen Gardner, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, Dr. English, on premises. Hollow tile and stucco, 2 stories, 30x83 feet, tin roof, reinforced concrete and tile floors, electric light, tile work. All bids rejected. Architects will take sub-bids.

**Double Cottage,** Glen Gardner, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Board of Managers, care of Dr. English, Glen Gardner, N. J. Frame and stucco, 2½ stories, 28x50 feet, tile roof, hardwood floors (heating, electric work and plumbing reserved), tile work. All bids rejected. Architects will take sub-bids.

**Boiler House,** Mount Ephraim street, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Domestic Laundry, Mr. Fries, Haddon Heights, N. J. Concrete block, stucco, 1 story, 28x60 feet, slag roof, concrete floors, roof ventilators, rolled steel sash, 80-foot chimney. Owner will sublet.

**Church and Rectory (alts. and add.),** Woodbury, N. J. Architect, Emile G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Patrick's Roman Catholic Church, care of Rev. C. G. McCorriston, Woodbury, N. J. Stone, steel, cut stone, frame, 1 and 3 stories, 72x27 feet, rectory 16x12 feet, hot air and hot water heat, slate, slag roof, pine and cement floors, hollow tile, electric lighting, metal lath, bond, ornamental iron work, limestone. Architect taking bids due June 23rd.

**School,** Lawrenceville, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Board of Education, care of E. H. Pearson, secretary, Lawrenceville, N. J. Brick and steel, 2 stories, 77x120 feet, asbestos shingle and slag roof, yellow pine floors, hollow tile, safety treads, roof ventilators, metal ceilings, tile work, waterproofing and dampproofing, iron stairs. Owners taking bids due July 2nd.

**Elementary School,** Phillipsburg, N. J. Architect, E. H. Wenzelberger, 3 Center Square, Easton, Pa. Owners, School Board, care of Alfred Case, secretary, Phillipsburg, N. J. Brick, 1 story, 119x104 feet, slate roof, pine floors, hollow tile, metal lath, tile and terrazzo work. Owners taking bids due July 3rd between 5 and 6 P. M. (daylight saving time).

**Road Work,** New Jersey. Owners, State Highway Department, Broad Street Bank Building, Trenton, N. J. Route 4, Section 21, Ocean County, 12,846 cubic yards excavation, 33,937 square yards gravel surface, and 57,483 square yards reinforced concrete pavement. Route 5, Section 10, Morris, Essex and Union Counties, 7,212 cubic yards excavation, 461 square yards sheet asphalt pavement, 4,300 square yards granite block pavement, and 20,566 square yards reinforced concrete pavement. Owners taking bids due June 25th at 11 A. M. (standard). Deposit of \$10.00 required.

**Road Reconstruction,** New Jersey. Engineer, H. B. Smith, Court House, Mount Holly, N. J. Owners, Board of Chosen Freeholders, Burlington County, Court House, Mount Holly, N. J. Road No. 19, Bridgeboro to Chester avenue, Delran Township and Moorestown Township, 38,655 square yards. Road No. 3, Vincenttown-Cross Roads Road, Southampton Township, 46,622 square yards. Road No. 15, Florence Road, Florence Township, 26,900 square yards. Owners taking bids due June 29th at 10.45 A. M. (standard time).

**Power House (alts.),** Trenton, N. J. Architects, Guilbert & Betelle, Newark, N. J., and Arnold H. Moses, Camden, N. J. Owners, State Normal School, Committee of Educa-

tion, State House, Trenton, N. J. Mechanical equipment, electrical equipment and wiring, refrigerating plant. Owners taking bids due July 2nd, 3 P. M. (daylight saving).

**Parochial School,** Seventh and Federal streets, Camden, N. J., \$150,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Immaculate Conception Roman Catholic Church, care of Rev. J. Fitzgerald, Camden, N. J. Stone, 2 stories and basement, 110x65 feet, slag roof, pine floors, steam heat, electric light, iron work. Architect taking bids due June 27th, 2 P. M.

## New Jersey Contracts Awarded

**Telephone Building,** Collingswood, N. J. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick, limestone, steel and concrete, 2 stories and basement, 150x75 feet, steam heat, electric light, slag roof, concrete asphalt, mastic cork tile floors, metal lath, hollow tile, tile, marble and terrazzo work, hollow metal sash, skylights and doors, bond, waterproofing, iron stairs, ornamental iron work. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

**Manufacturing Building,** Camden, N. J. Architect, private plans. Owners, Joseph Campbell Co., Camden, N. J. Reinforced concrete and steel, 6 stories, 82x180 feet (heating, electric and sprinklers reserved), slag roof, cement floors, rolled steel sash and skylights, elevators, waterproofing, plumbing. Contract awarded W. Steele Sons, 219 North Broad street.

**Store Building,** 934 Broadway, Camden, N. J., \$30,000. Architect, A. B. Kill, Law Building, Camden, N. J. Owners, A. Robus & Son, care of architect. Brick and limestone, 2 stories, 40x70 feet, slag roof, hot water heat, electric light, slag roof, composition roof, plate glass. Contract awarded to Leslie Reeve, Woodlynne, N. J.

**Garage and Apartment,** Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owner, Mr. Barfoot, 3711 Ventnor avenue, Ventnor, N. J. Brick, 3 stories, 50x150 feet, slag roof, concrete and hardwood floors, hot water heat, electric light, tile work, rolled steel skylights. Contract awarded to E. W. Greenlee, 2616 Monterey avenue, Atlantic City.

**Factory (alts.) to Apartment,** 113 North Virginia avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, Frank W. Miller, 1678 Shipman street, Newark, N. J. General alterations, partitions work, steam heat, electric light, hardwood floors, tile work, plumbing. Contract awarded to Samuel Kugel, 21 North Congress avenue, Atlantic City.

**Comfort Station,** Court House, Woodbury, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owners, City of Woodbury, N. J. Plumbing, carpentry and mill work. Contract awarded to J. B. Best, Woodbury, N. J.

**Completion of School,** Brooklawn, N. J. Architect, J. L. Coneys, Drexel Building, Philadelphia. Owners, School District of Brooklawn, N. J. Contract awarded to McCloskey Co., 1620 Thompson street, Philadelphia.

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Miscellaneous  
Construction News

**Store Building**, Northwest Corner Eighth and Market streets, Wilmington, Del. Architect, private plans. Owners, S. S. Kresge Co., Detroit, Mich. Masonry, cut stone, art stone, tile, marble, terrazzo, structural steel, 2 stories, 87x117 feet, ornamental iron and bronze, fire doors, metal windows, mill work, roofing and sheet metal work plastering, hardware, plumbing and heating, ventilating, electric wiring. Owners taking bids due June 28th.

**Road Work**, Delaware. Owners, State Highway Department, Dover, Delaware. Contract No. CN13, excavation, broken stone base, cement concrete pavement, pipe, underdrain, concrete gutter, guard rail, piling. Contract No. CK16. 6 miles. Clearing, grubbing, excavation, broken stone base, concrete pavement, pipe, concrete work, reinforcement. Contract No. 45, 1.58 miles. Excavation, broken stone base course, cement concrete pavement, concrete, reinforcement, pipe piling. Contract No. -8. Guard rail posts. Bids due June 27th at 2 P. M.

**Road Work**, Delaware. Owners, State Highway Department, Dover, Del. Contract CK5, 3.557 miles. Excavation, base course, concrete pavement, steel reinforcement, pipe; \$112,213.50. Contract awarded to Harrison Eng. & Const. Co., Buffalo, N. Y. Contract CK12, .738 miles. Excavation, stone concrete pavement, slag concrete pavement, class "A" concrete, pipe, reinforcement, guard rail, wood curb; \$32,715 and \$32,127.50. Contract awarded to Baton Const. Co., 1713 Sansom street, Philadelphia.

**Farm Building**, Eastern Shore, Maryland. Architects, Dearmond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, H. Rodney Sharp, Wilmington, Del. Hollow tile, stucco cottage, 2 stories, 40x80 feet, garage, 1 story, 30x80 feet, stable, 1 story, 30x100 feet, vapor heating, electric light tile roof, cement and yellow pine floors. Plans in progress. Owner will build.

**Grotto**, location withheld. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Concrete work, masonry, cement work, slate work, or-bronze statuary. Plans in progress.

**Hospital**, Charleston, S. C., \$100,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Charleston, S. C. Hollow tile and stucco, 2 stories, 40x110 feet, will accommodate 30 patients. Plans in progress.

**Church and Rectory**, Rye, New York, \$250,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Roman Catholic Church of Resurrection, care of Rev. James E. Doggin, Rye, N. Y. Stone, 70x180 feet, 3 stories, 40x60 feet. Plans in progress.

**Dry Kiln Building, Dry Storage Building**, Colonie, Albany County, N. Y. Architect, private plans. Owners, The Embossing Co., Colonie, Albany County, New York. Brick and steel, 1 story, 69x72 feet, 154x84 feet, composition roof, yellow pine and cement floors. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

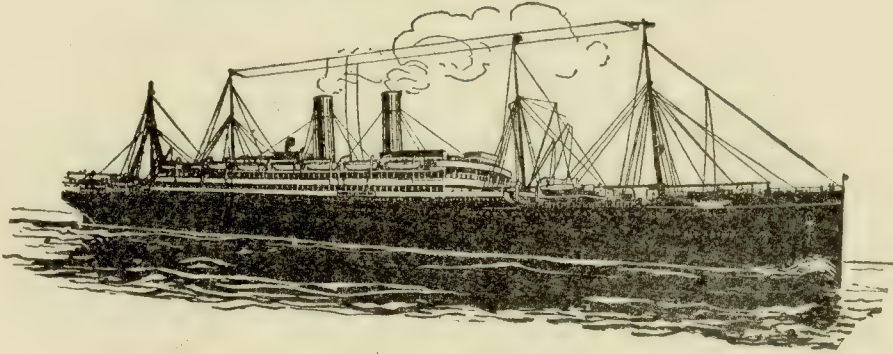
Proposals

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to install certain Mechanical Equipment for the New Power House, State Normal School, Trenton, N. J., will be received by the Architects at the office of the Commissioner of Education, State House, Trenton, N. J., on July 2, 1923, at 3 P. M., Daylight Saving Time.

Contracts will be let in two or three contracts, as follows: (a) Engines and Generators, (b) Electrical Equipment and Wiring, (c) Refrigerating Plant.

Proposals shall be made in form required by the Architects, enclosed in sealed envelopes with bidder's name, addressed to Commissioner of Education, State House, Trenton, N. J., and endorsed, "Proposals for Mechanical Equipment, State Normal School, Trenton, N. J.," and stating the branch or branches of work covered.

No bid will be considered unless accompanied by a certified check to the order of the State of New Jersey, in the amount of 10% of the gross bid, binding the bidder to execute a contract or contracts if awarded to him. The terms of proposal with Surety required are fixed by the specifications.

The right is reserved to accept or reject any or all proposals and to waive informalities.

Copies of drawings and specifications will be on file at the office of the Architects for the purpose of estimating. A limited number of such copies will be loaned to the prospective bidders on deposit of a certified check to the order of the State of New Jersey in the sum of \$10. These drawings and specifications may be obtained by application to Guilbert & Betelle, Architects, Chamber of Commerce Building, Newark, N. J. If the drawings and specifications are returned on or before the date of submission of proposals the check will be returned, but should same not be returned, the deposit may become forfeited.

**GUILBERT & BETELLE,  
ARNOLD H. MOSES,  
Associated Architects.**

## WOLF! WOLF!

All over the nation the apparent scarcity of labor and the real lack of mechanics is causing competitive bidding that is sadly reminiscent of the vivid days of 1920. The enormous building program, and the inadequacy of railroad facilities have tended to hoist the prices of material to the accompaniment of tremendous howling by the public—but who cares or who dares to lay any blame on labor for getting all the traffic will bear?

The ruinous conditions of '20 being deeply impressed upon the memory of our solid citizenry who were swept into the maelstrom by the exigencies of the moment, only shortly later to find themselves holding the well-known bag, while the chaps who had everything to gain and nothing to lose, proceeded to gain everything by speculation—it is only reasonable to expect that same solid citizenry to be coy and extremely conservative—yes, even apprehensive of a boom that would lead to another charnel-house condition like 1920.

So this once-burnt citizenry are now advising against building. They can claim no originality in this, as the Honor-

able Herbert Hoover conceived the thought long before they did, when he advised that the government building program be held up and kept out of competition with private enterprise. These folk who are attempting to thwart the avalanche, however praiseworthy and high motivated they may be, must remember this one thing—that in times of stress, the building industry is the first industry hit; it is the last and hardest to recover, and is not on the preferred list of activities during slack periods. So it would be well to proceed with caution with a slowing up of the building program so as to avoid a complete stop. Brakes are all right but they mustn't be jammed down hard when the machine is travelling at a high rate, for like grandfather's clock it might "stop, never to go again."

The thought back of a deferred building program is that the public, if lured into a condition of stomach which ordinarily requires soda mint tablets to cure, will quit building and buying as they did in 1921. But the dear public, as the late P. T. Barnum remarked, "wants to be fooled," or bunked, as witness their mad stampede to get into line to buy when prices are high. Eventually, when the effervescence has gone, and the cold gray light of reason filters into the public head, they realize that they have been "gypped"—but instead of blaming themselves and swallowing the bitter pill with a grin, they howl loudly and with vigorous abandon.

As a matter of fact, practically no one is forced to build. They may be led into building, but no one can be driven into erecting a building, so in the final analysis, the dear public has only itself to blame for building or buying at the peak. But the long heads of the building industry know the sting of public opinion, and wish to avoid a duplication of the venomous thrusts so lately aimed at them by the short memoried and unthinking public.

There are five classes of individuals who like to see a wild cat market. The fly-by-night real estate operator likes to see it, for the higher the price, the larger his commission. He gets his, while the getting is good, risking nothing but his time, which is valueless anyway. The reputable real estate man deplores such a market, and would cheerfully murder the shyster operator, for he knows the balloon must come to earth some day, and when it does, public confidence in real estate has been spoiled, and he either has to mark down his own legitimate properties or carry them till times are better.

The loan shark welcomes a fly-away period, for he knows that the reputable loaning organizations tighten their purse

strings at such a time, and he makes loans at fancy discounts. Even when the bubble is pricked, he can't lose much, for his bonuses have been so outrageous that he can afford to take the slump markdown and still have a gilt edged investment.

The roll-top desk material man loves a period such as 1920. His manufacturers co-operate with him to unload a lot of junk at fancy prices, and the profits suffer from fatty degeneration. The dealer with an investment in yards, equipment, and material, dealing only with reputable manufacturers, hates a sky-scraping market, for when the flood subsides the roll top man retires—but the dealer with the investment stays and takes the cussing.

The soldering mechanic licks his lips at the thought of '20 conditions. He knows that he can't hold a job when things are normal, and he knows that what little he does looks better than nothing to the fatuous builder who has bid in his services, and so he putters along, killing time, and leaving a bad taste with everybody. When the rocket comes to earth, he picks up his tools and hikes—and the honest mechanic who really is trying to earn his pay, stays and takes the cut in wages and bears the opprobrium.

Labor has always claimed lilv white hands for itself. Now Labor has a chance to show that it really is clean. By digging in and doing a day's work and earning a day's pay, by honest men refusing to work on the same job with loafers, by cleaning house of the parasites who drone along and garner profitable wages demanded by regular mechanics, Labor can redeem itself and win approbation. But will Labor do it? Judging from past performances—it is to laugh!

The highly speculative builder likes a wild cat market. He operates on a shoe string of his own money, co-operates with the roguish real estate man, borrows money from the avaricious loan shark, connives with the unstable material man, pays Labor unheard of prices, sticks up buildings, unloads them at fancy prices, and fades from the picture. He should worry about the man who finds mortgages coming due with alarming and persistent regularity! He should sweat blood paying fancy bonuses renewing mortgages. He should face the prospect of losing his all by foreclosure. But he got his—and got out! Flim flam—gold brick—watch the pea, gentlemen, and tell me which shell it is under—green goods—if this speculative madness is not stopped, the building industry will soon be classed with such "con" games.

—Building Industry.



# Reference Directory for Architects, Builders and Owners

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Artesian Well Drilling Co.,  
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Ketcham, O. W. ....121 N. 18th St., Phila.

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## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

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DeFraim Sand Co. ....Finance Bldg., Phila.  
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Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

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Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

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Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

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## HEATING CONTRACTORS.

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Tinney, Walter H., Co.,  
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Ketcham, Howard ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
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Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

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Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MORTGAGE FUNDS.

Taylor, G. Herbert. ....Pennsylvania Bldg., Phila.

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Cox, Abram, Stove Co.,  
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Richardson & Boynton Co. ....1308 Arch St., Phila.

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## REINFORCING BARS.

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## ROOFING.

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## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

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Knickerbocker Lime Co.,  
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Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## SEWER PIPE.

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June 27, 1923

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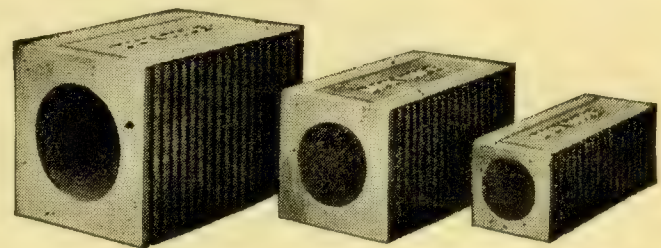
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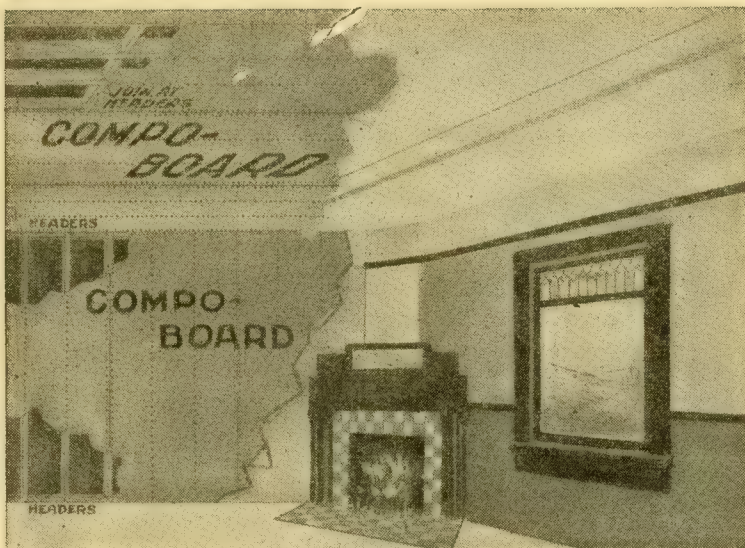
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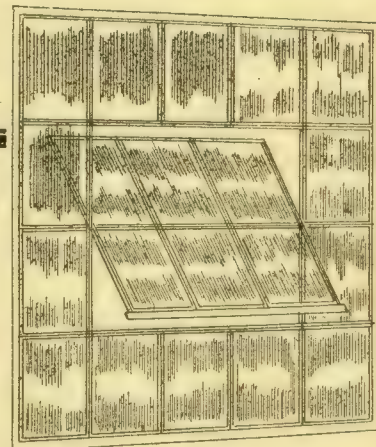
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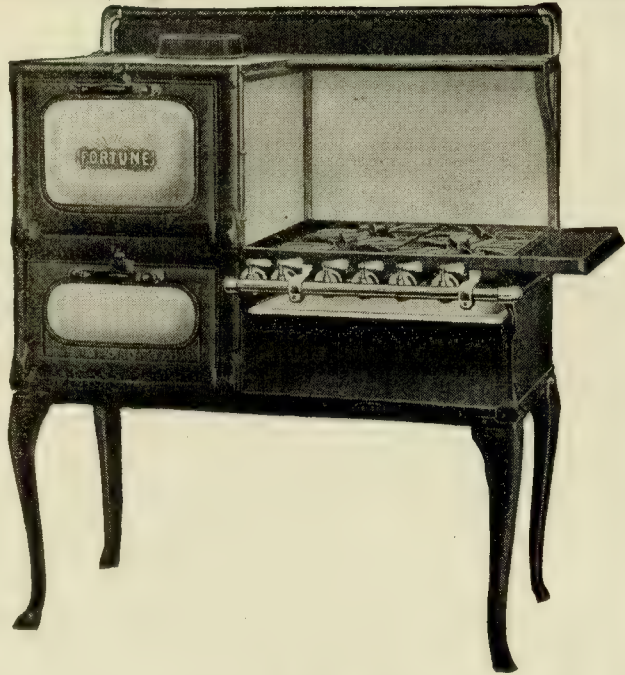
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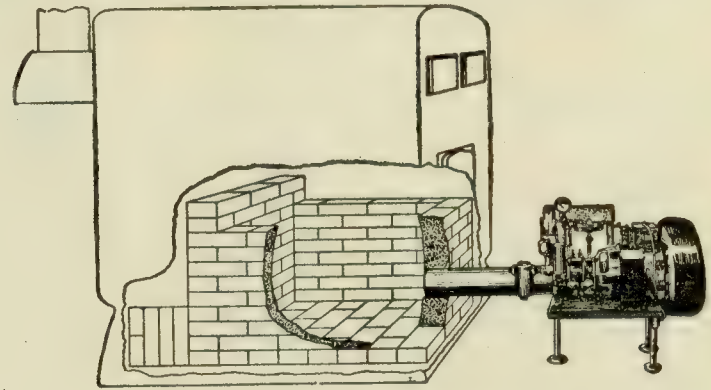
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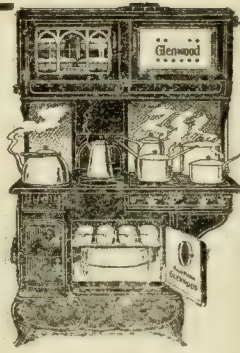


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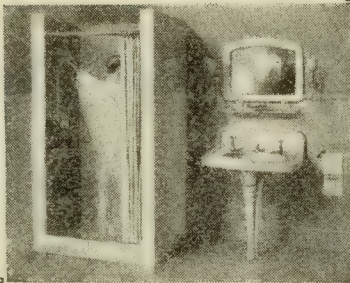


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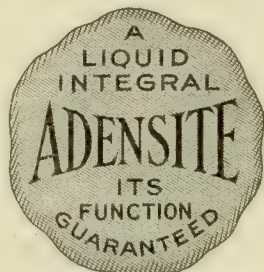
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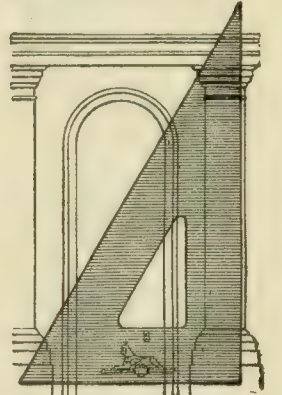
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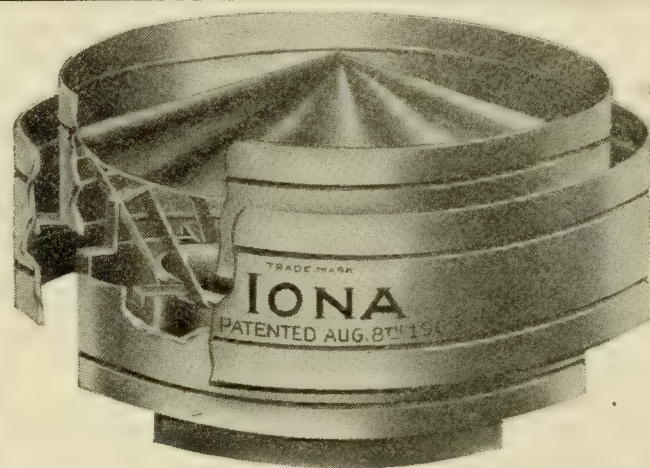
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# BUILDERS' GUIDE

VOLUME XXXVIII  
Number 26

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

PHILADELPHIA  
June 27, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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## As The Editor Sees It



### APPRENTICES AND CRAFTSMANSHIP

BY D. KNICKERBACKER BOYD\*

At the many meetings which we have had of the Philadelphia Building Congress, we have almost always come down to the one subject, that of lack of apprentices, and the need of apprenticeship training in the building crafts. These conditions seem more accentuated today than ever before, because of the recent great increase in the amount of building construction. Notwithstanding this, the facts are that during the last ten years the number of workers in the building trades has constantly decreased while, with the exception of the period following the war building itself has greatly increased, so that you see the situation we are confronted with today is quite a natural one. But it should have been recognized long ago.

Now, when we consider the problem of the apprentice in the building trades or crafts, as I prefer to call them, and debate whether the fault lies with those who, it is often claimed, are endeavoring to restrict the number of apprentices or with the employers who it is also claimed are not willing to assume the responsibility of training young men, we have before us quite a large subject. And what

\*Remarks made at the Fifty-sixth annual convention of the American Institute of Architects in Washington, D. C.

we need, as architects, I firmly believe, is to devote more attention to craftsmen and not give all our thoughts to draftsmen, although we do need still to do much for the latter.

The difficulty seems to be, notwithstanding the two claims made, that the boys do not exist in sufficient numbers who want to learn the crafts and trades. The young men of today do not seem to want to enter what they consider the "laboring" field. So why go into protracted academic discussions as to who is responsible for the lack of numbers? We need to discover the cause of the lack of interest on the parts of the boys.

We must inculcate the idea in the young men of America that the crafts do offer a future for them, and we must stimulate in their minds a desire to achieve something dignified and definite with their hands. The craving of every human being to create and accomplish can be satisfied through craftsmanship properly appreciated.

The present difficulty does not rest so much with the boys, it seems to me, as it does with many of their parents, and with most of the educational systems of the country. Traced back into the homes of the children, I really believe that the fault lies more with the mothers, sisters and sweethearts of the young men and boys, than it does with almost anyone else. These dear ladies, most of them, do not want to see their boys, brothers

or "boy friends" dressed in overalls or the clothes of workmen, and littered with mortar, plaster, sawdust, metal filings or paint. They do not seem to like that and they therefore use their persuasion on their relatives and friends to keep them from training for or engaging in this sort of work.

We, therefore, feel as we see it in Philadelphia, and as I have observed it throughout our movement elsewhere, that we can, as a group accomplish definite results, and as individual architects, achieve something by directing our energies with equal force to the present journeymen problem, as well as to the apprentice.

After all, the greatest discourager of the boy who might want to become an apprentice in the building trade can be, and most frequently has been in recent years, the father who is now working in the trades. Fathers, uncles or relatives who are employed in the so-called building trades at this time will generally not urge or encourage their sons, nephews or other young men to enter the same calling.

The journeyman of the present generation now working on the buildings we design realizes that he has lost much time in the Eastern and other sections of the country subject to cold climates, through seasonal losses of occupation, as Mr. Parker said. He has, in normal times, been subject to intermittency of employ-

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ment, and he has been working at what is almost always rated a hazardous occupation. He is frequently working out doors, subject to attendant disadvantages as well as advantages. His task is often a very heavy one and involves a difficult piece of work, and in spite of the skill required and art he many times displays, he tells his boy not to learn that trade. These men can be the greatest enemies of the building crafts today. I think the fault lies partly with the construction groups, the public and with us as individual architects.

Locally and nationally, studies of all the difficulties involved can be made and conditions alleviated through co-operation of all, including the public by a sensible distribution of its new construction and maintenance requirements.

As for our part as individuals, if we architects recognize the fact that we are, as our very name implies, master craftsmen, it seems to me that we ought to be able each to accomplish our part in improving the status of other craftsmen by encouraging and giving recognition to the "workers on the job." It is these men who, as a matter of actual fact, assume their part with us in securing the results which we are striving for when we design our buildings and write our sometimes hazy specifications.

Many of us, if we look back through the years of our superintending, will perhaps realize all too suddenly that we have usually passed the worker by,—that he has not been given sufficient recognition for services well performed. We all have to condemn work sometimes,—but how much oftener, when it should be commended do we do so? That, it seems to me, is one of the faults to which we can address ourselves, and we can very readily correct it if we will give heed to the human side of our own industrial relations. If our contact with the workers on our buildings is such that they know that real interest and good work will cause favorable comment, we will encourage them and help them to believe that which they may often be justified in doubting,—namely, that what each is doing is, if well done, an accomplishment worthy, often to be called an art.

The consciousness on the part of each that what he does is something vitally important to the success of the whole design and fabrication will cause each to feel that he must qualify as a craftsman, and not be content to consider himself merely one of a "gang" working on a "job."

I would like to give you one typical illustration of an actual experience in this direction.

Just before I left Philadelphia I attended the opening of an exposition there called the Palace of Progress. For this exposition there has been built under my

direction one of the numerous buildings called the "model home." The management consented to use a book descriptive of the materials used, with which we should all be more familiar than we are. It was also decided to list the names of every man who worked efficiently night or day to make that building a success.

In keeping the records to give this recognition to the craftsmen and workers, I asked some of the bricklayers what the names of the men who worked with them in their particular craft. I said to them, "How about the mortar mixers and the hod carriers?" One of the bricklayers said, "My God! you don't want *their* names, do you?" (Laughter.) I said, "Why, Certainly! You men must admit that you can't successfully perform your work, nor can the architect get the best results for the owner if you don't get good mortar and if you haven't got good, strong shoulders to carry the mortar and bricks to you and place them efficiently for you. I consider those men very important to the rest of us."

The bricklayer said, "We only know them by their numbers, as 1, 2 and 3. That man over there is No. 2," (indicating). I had to go to the man and get his name personally, which I was glad to do, though it caused much astonishment on his part as to my purpose.

As a result of that talk and others, and of the fact that these men were going to be given recognition in the book, many of them who had been working day and night during two weeks said, "We will not accept any excess pay for the overtime or the night work, because our efforts to please the public are being recognized."

I have often talked to workers collectively and individually and asked them if, they should be requested to express one wish that they would like to have gratified more than any other, what that wish would be. They have all said strange as that may sound to some, that what they wanted most was some fair recognition for their work,—or as they have put it—a few words of appreciation for work well done when they try to do their best.

In that direction we, as architects, can take advantage of many of the opportunities that our calling presents. We can surely appreciate the human factor and stop and talk with the men. They can work with us and not for us, and we can both learn and teach if we say, "Well done, old man," or Tom or Dick or Harry, or whoever he may be,—if his methods and results appeal to us.

We may not always be in a position to say that they are doing their job well, for they may know it a great deal better than we do, but we certainly let them know at least that they are giving us the

(Continued on page 414)

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**Police Station**, Fiftieth and Lancaster avenue, Philadelphia. Architects, Paul A. Davis, 3rd, and Dunlap, Presser Building, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, Director J. C. Cortelyou, City Hall, Philadelphia. Brick and stone, 2 stories, slag roof. Plans in progress. Ready for bids in 2 weeks.

**Store and Residence**, 1206 Mifflin street, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 2 stories, 18x50 feet, hot water heat, electric light, tile work, slag roof, hardwood floors, plate glass. Architect ready for general bids.

**Machine Shop and Garage**, Harvey's Court, near Twenty-first and Pine streets, Philadelphia. Architect, Edward Schoppe, 316 South Fifteenth street, Philadelphia. Owner, name withheld. Concrete and brick, shop 2 stories, garage 1 story. Plans in progress. Architect ready for bids in two weeks.

**Residence (alts.)**, 1815 Spruce street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Dr. J. A. Kelly, on premises. General alterations. Plans in progress.

**Residence (repairs) and Garage**, 50 West Rittenhouse street, Germantown. Architect, C. S. Parker, 5018 Schuyler street, Philadelphia. Owner, Kalman Marimow, 5838 Germantown avenue, Philadelphia. Carpentry, plastering and plumbing, garage, brick, 1 story, 18x19 feet, slag roof, electric light, ce-

ment floors. Plans completed. Owner ready for bids.

**Apartment House (alts.)**, Northwest Corner Nineteenth and Panama streets, Philadelphia. Architect, W. F. Koelle, Otis Building, Philadelphia. Owner, name withheld. Brick, 4 stories, general alterations and additions. Preliminary plans in progress.

**Bank Building (alts.)**, Southeast Corner Fifty-second and Ludlow streets, Philadelphia. Architect, H. Child Hodgens, Inc., 130 South Fifteenth street, Philadelphia. Owners, West Philadelphia Bank, 36 South Fifty-second street, Philadelphia. Brick, limestone, 60x67 feet, general interior alterations. Plans in progress.

**Laundry Building**, 1515-17 Belfield street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, T. Reichman, 705 Arch street, Philadelphia. Brick, 1 story, 38x96 feet, electric lighting, slag roof, cement floors. Plans in progress.

**Residence (alts. and add.)**, Twelfth and Silver streets, Philadelphia. Architect, W. F. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations into apartments, brick, 3 stories, heating alterations, lighting, plumbing. Preliminary plans in progress.

**Store and Apartments (alts. and add.)**, 4308 Frankford avenue, \$12,000. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Gustav Decker, 4310 Frankford avenue, Philadelphia. Brick, 3 stories, 25x25 feet, steam heat, electric light, tile work, metal bars, plate glass, slag and tin roof, hardwood and yellow pine floors. Owner taking sub-bids.

**Store and Apartments (4)**, Coulter and Morris streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank R. Datesman, 815 East Cheltenham avenue, Philadelphia. Brick, 2 stories, irregular, hot water heat, electric light, slag roof, hardwood floors, tile and marble work, metal bulks. Owner taking sub-bids.

**Building (alts.)**, 709 Sansom street, Philadelphia. Architect, Fletcher Street, 1120 Locust street, Philadelphia. Owners, T. B. Hagstoz & Sons, on premises. Electric lighting, carpentry and mill work, plastering, painting and glazing, plumbing, metal lath. Archi-

tect taking revised bids due as soon as possible.

**Stores (2), Apartments (6) (alts.)**, 5851 Florence avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, S. Moscow, care of architect. Oak floors, galvanized iron skylights, tile work, plumbing, changes in heating, electric work, steel and iron work, metal lath, plastering. Architect taking bids due as soon as possible.

**School Buildings (alts.)**, various locations, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Alterations to building, sanitary repairs, repairs to heating equipment, painting, repairing and painting roof, repairs to flag poles, wire screen, electric work, etc.; replacing broken terra cotta, Kinsey School. Owners taking bids due July 5th at noon.

**Concrete Grandstand**, Houston Field, Philadelphia. Architect, Walter Williams Sharp-ley, 225 East Washington Square, Philadelphia. Owners, Central High School, Broad and Green streets, Philadelphia. Concrete, 91x38 feet. Architect taking bids.

**Stores (6), Apartments (8)**, Southwest Corner Fifty-seventh and Market streets, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, George F. Pfhaumer, Fifty-seventh and Market streets, Philadelphia. Brick, 3 stories, (3) 17x70 feet, (1) 17x84 feet, hot water heat, electric light, slag roof, hardwood and yellow pine floors, tile work, bond, plate glass. Architect taking bids due as soon as possible.

**Stores (2), Residences (29)**, Belmar Terrace, between Fifty-ninth and Sixtieth streets, Philadelphia. Architect, John E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, M. Della Porta, 1624 South Fifteenth street, Philadelphia. Brick, 2 stories, 17½x34 feet, hot water heat, electric light, tile work, slag and tin roof, hardwood floors. Garages in basement. Architect taking bids.

**Store**, 5529 Germantown avenue, Philadelphia. Architect, private plans. Owners, S. S. Kresge Co., Detroit, Mich. Brick, steel, artificial stone, 2 stories, 40x15 feet, steam heat, slag roof, electric light, tile, marble and terrazzo work, maple floors, iron work. Owners taking bids due June 28th.

**Alterations (Residence into Apartments)**, Southwest Corner Fiftieth and Chancellor streets, Philadelphia. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owner, Benjamin Doyle, 261 South Fiftieth street, Philadelphia. Brick, composition floors, cut stone, carpentry and mill work, electric work, oak floors, hot water heating alterations, plastering, painting and glazing, plumbing, iron work. Owner taking bids due June 29th.

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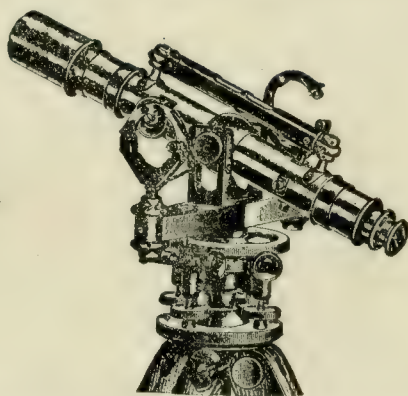
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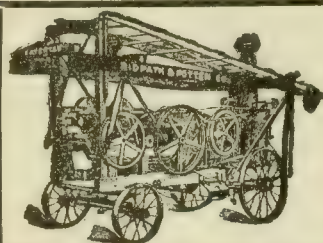
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and Filbert streets, Philadelphia. Approximately 50,000 to 55,000 tons washed crushed rock, engines and fans. Owner taking bids due July 9th at noon (standard time).

**Store**, 4330 Frankford avenue, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, A. H. Bennett, on premises. General alterations, new store front, carpentry and mill work, marble work, plate glass, galvanized iron work. Owner taking bids due as soon as possible.

**Building**, Harrowgate Incinerating Plant, G and Romona streets, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, Room 232, City Hall. Brick, steel, terra cotta and concrete, slag roof, monolithic and cement floors, elevators, iron work and stairs, hollow metal doors, rolled steel sash (electric, heating, plumbing, burner equipment, foundations, excavation reserved). Low bidders: Murphy Quigley Co., 1524 Sansom street, Philadelphia, \$164,400; Kober Const. Co., 34 South Seventeenth street, Philadelphia, \$168,877. Electric, Greenwood Engr. Co., 3314 Lancaster avenue, \$1,945. Plumbing, Bullman Brothers, Fifth and Cumberland streets, \$8,766.

**Locker Building**, Wheatshaf Lane and Richmond street, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Surveys, 216 City Hall. Brick, steel, 1 story, 42x26 feet (plumbing, heating, electric separate), asbestos roof, granolithic floors, ornamental iron work and stairs, bond, metal lath, tile floors. Low bidders: Kober Const. Co., 34 South Seventeenth street, Philadelphia, \$23,400; S. Sidney Lewis, Real Estate Trust Building, Philadelphia, \$23,678. Electric, W. V. Pangborne & Co., 1927 West Montgomery avenue, Philadelphia, \$366. Heating, Mechanical Equipment Co., Drexel Building, Philadelphia, \$1,289.

**Summit Avenue Bridge**, over Philadelphia and Reading Railway, Chestnut Hill Branch, Pa. Architect, private plans. Owners, Bureau of Highways, Department of Public Works, Room 216, City Hall. Concrete and steel. Low bidders: F. J. Boas, 201 North Broad street, Philadelphia, \$7,500; Fish Rutherford, Inc., Real Estate Trust Building, Philadelphia, \$7,700.

**Residences (35)**, Fifty-ninth and Springfield avenue, \$213,000. Architect, private plans. Owners, Meloney & Ford, 722 South Fifty-first street, Philadelphia. Brick, 2 stories, (2) 16x9 feet, 16x48 feet, (33) 15x32 feet, 12x16 feet, and 11x9 feet, hot water heat, electric light, tile work, hardwood floors. Owners will build.

**Apartment House**, Northwest Corner Horter street and Lincoln Drive, \$300,000. Architect, Mandes Golder, 274 South Twentieth street, Philadelphia. Owners, Jacob Korman

and Benjamin Dintenfass, 5020 Rosehill street. Brick, 4 stories, 104x187 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Owners will build.

**Residence and Store and Residences (8)**, Twenty-first street and Sixty-sixth avenue, \$50,500. Architect, private plans. Owner, John M. Zerbey, 4713 North Broad street, Philadelphia. Brick, 2 stories, 18x32 feet, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Power Station (alts.)**, Northeast Corner Thirteenth and Mount Vernon streets, \$25,000. Architect, private plans. Owners, Philadelphia Rapid Transit Company, Eighth and Dauphin streets, Philadelphia. General alterations. Owners will build.

**Manufacturing Building (alts.)**, North side Gray's Ferry Road, West of Thirty-fifth street, Philadelphia, \$25,000. Architect, private plans. Owners, E. I. DuPont De Nemours Co., Wilmington, Del. Miscellaneous alterations. Owners will build.

**Storage Building**, South side Washington avenue, East of Seventeenth, \$60,000. Architect, private plans. Owners, American Ice Company, 121 North Broad street, Philadelphia. Brick and steel, 1 story and loft, 57x150 feet, slag roof, cement floors, electric lighting. Owners will build.

**Residences (4)**, West side Germantown avenue, South of Upsal street, \$14,000 each. Architect, private plans. Owner, Joseph P. Tyrrell, 3329 Krail street, Philadelphia. Brick and stone, 3 stories, 17x20 feet, 18x30 feet, hardwood floors, electric light, tile work, hot water heat. Owner will build.

**Residences (3)**, West side Rand street, South of Ontario, \$10,000 total. Architect, private plans. Owner, Roland Bale, Sr., 827 East Westmoreland street, Philadelphia. Brick, 2 stories, 18x29 feet, slag roof, hot water heat, electric light. Owner will build.

**Residence**, Southeast Corner Fourth and Cheltenham avenue, Philadelphia, \$11,000. Architect, private plans. Owner, W. E. Ferguson, 407 Grange avenue, Philadelphia. Brick and frame, 3 stories, 26x39 feet, hot water heat, electric lighting, hardwood floors, tile work. Owner will build.

**Residence**, West side Rockwell avenue, North of Oxford avenue, \$8,500. Architect, private plans. Owner, C. M. Collamer, 309 Loney street, Philadelphia. Frame, 2 stories, 18x44 feet, and 1 story, 18x12 feet, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (2)**, East side Rowland avenue, North of Fuller street, \$3,500 each. Architect, private plans. Owner, F. J. Blankenhorn, 2509 Clark street, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, hot air heat, electric light. Owner will build.

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**Shop**, South side Baring street, East of Fortieth street, Philadelphia, \$3,000. Architect, private plans. Owner, Warren E. Biscoe, 4222 Brown street, Philadelphia. Brick, 1 story, 48x27 feet, cement floors, slag roof, electric lighting. Owner will build.

**Residences (3)**, West side Livingston street, North of Westmoreland, \$3,200 each. Architect, private plans. Owner, Frank Faulkner, 6709 Frankford avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 12x5 feet, hot air heat, electric light, slag roof. Owner will build.

**Apartment (add.)**, 922 South Forty-ninth street, Philadelphia, \$3,000. Architect, private plans. Owner, James Darragh, 3628 Powelton avenue, Philadelphia. Brick, 2 stories add., 10x14 feet. Owner will build.

**Garage and Shop**, North side Haines street, East of Fifteenth street, \$2,000. Architect, private plans. Owner, Michael Herb, Fifteenth and Haines streets, Philadelphia. Brick, 1 story, 16x40 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residence**, Northeast Corner Marshall and Carwithan streets, \$3,500. Architect, private plans. Owner, Fred Piccarie, 560 Rising Sun avenue, Philadelphia. Frame, 1 story, 24x36 feet, hot air heating, electric lighting. Owner will build.

**Garage**, North side Rector street, East of Houghton street, \$2,000. Architect, private plans. Owner, P. T. Sewazi, 634 Rector street, Philadelphia. Brick, 1 story, 16x20 feet, slag roof, cement floors. Owner will build.

**Residences (15)**, South side Queen street, between Vaux and Henry streets, total \$240,000. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Phila-

delphia. Stone, 3 stories, 24x35 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will build.

**Residences (4) and Residence and Store (1)**, Eighty-second and Eastwick avenue, Philadelphia, total \$29,000. Architect, private plans. Owner, Louis S. Friedrich, 8135 Eastwick avenue, Philadelphia. Brick, 2 stories, 17x47 feet, (4) 16x26 feet, 13x21 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Building (alts. and add.)**, Southwest Corner Twentieth and Hamilton streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railroad Company, Twelfth and Market streets, Philadelphia. Brick, steel, 2 story add., 28x174 feet (heating and electric reserver), built-up asbestos roof, yellow pine and asphalt roof, elevators, rolled steel shutters, rolled steel sash, bond, plumbing, ornamental iron work. Owners taking bids due July 2nd.

**Public School**, Forty-eighth and Fairmount, Aspen and Forty-seventh streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, granite, cut stone, reinforced concrete, steel, 3 stories and basement, 290x182 feet (plumbing, heating and electric separate), composition, asbestos shingle roof, concrete, maple, oak, mastic floors, metal lath, tile, marble and terrazzo work, sheet metal sash, rolled steel skylights, hollow metal doors, bond, iron work and stairs, safety treads, roof ventilators, metal weatherstrip, waterproofing, terra cotta. Owners taking bids due July 5th.

## Contracts Awarded

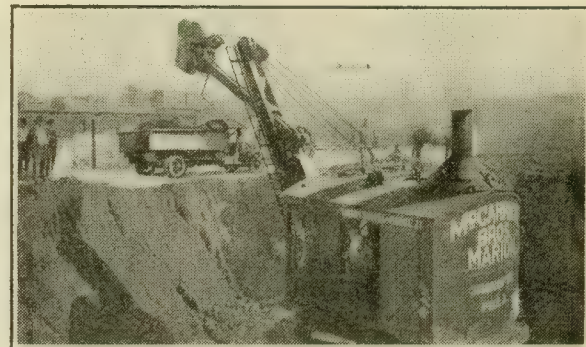
Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Hotel**, Northeast Corner Seventeenth and Addison streets, Philadelphia, \$18,567. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, John Woodson, Seventeenth and Lombard streets, Philadelphia. Brick, 4 stories, 18x53 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work, iron work, rolled steel skylights. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

**School Building**, Torresdale, Wakeling, Dittman and Margaret streets. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contract awarded to Cramp & Co., Denckla Building, Philadelphia, \$895,370. Heating, Austin, Gorman & Melvain, 1816 Ludlow street, Philadelphia, \$89,672. Plumb-

ing, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$40,300. Electric, James Cummings & Son, 4526 Frankford avenue, Philadelphia, \$31,446.

**Residence into Office and Apartments (alts. and furnishing)**, 3243 Chestnut street, Philadelphia. Architect, Herbert J. Wetherill, 420 Allen Lane, Chestnut Hill. Owners, American Anti-Vivisection Society, on premises. Brick, cut stone, steel and iron, tin roof, carpentry and mill work, plastering, tile work, galvanized iron skylights, electric work,



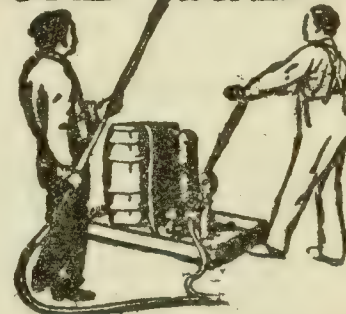
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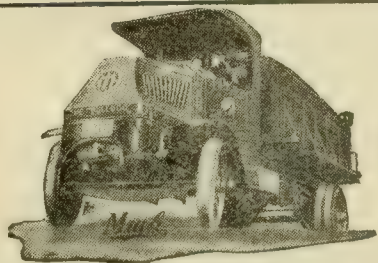
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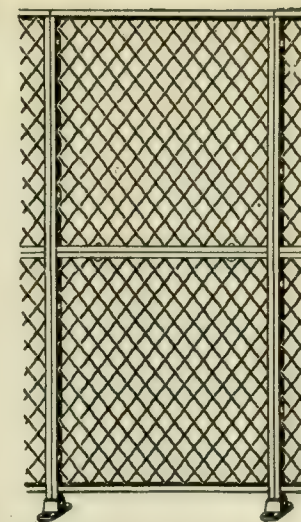
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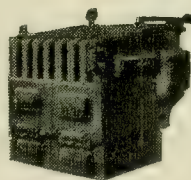
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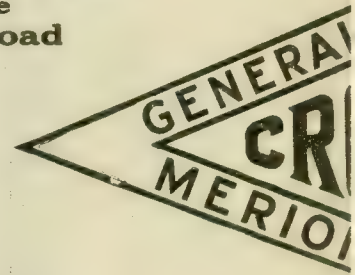
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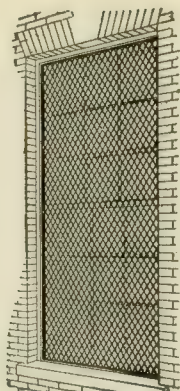
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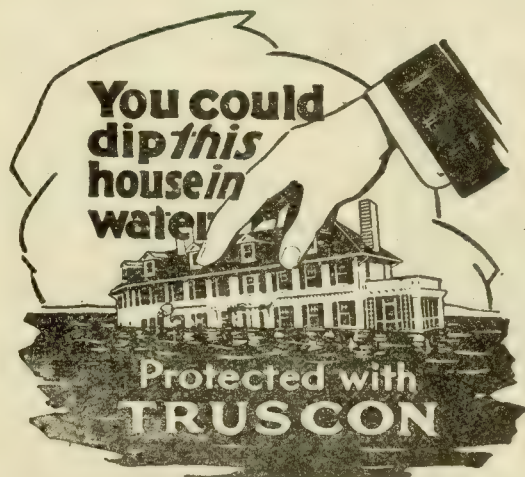
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plumbing hot water heat, bond. Contract awarded to Warren E. Biscoe, 2940 Ludlow street, Philadelphia.

**Church (alts.),** Thirty-eighth and Spring Garden streets, Philadelphia. Architects, McGinnis & Walsh, 101 Boylston street, Boston, Mass. Owners, St. Agatha's Roman Catholic Church, Right Rev. Mgr. M. C. Donovan, Thirty-eighth and Spring Garden streets, Philadelphia. Brick, steel and cut stone, carpentry, mill work, plastering, cement and oak floors, painting, metal lath, marble work, rolled steel sash, iron stairs and work. Contract awarded to W. H. Gissell Co., Thirty-fourth and Broadway, New York.

**Store and Shop (alts.),** Hunting Park avenue, West of Broad, \$5,000. Architect, I. Demshick, 1701 Chestnut street, Philadelphia. Owners, Haisfield Motor Co., on premises. Carpentry, mill work, plastering, steam heating, painting and glazing (electric work, tile and marble work reserved). Contract awarded to E. E. Hollenback, 1804 Brandywine street.

**Church and Chapel (add.),** Almond and Thompson streets, Philadelphia. Architect, Louis H. Giele, 1123 Broadway, New York. Owners, St. John Cantius, Rt. Rev. Mnsgr. M. A. Kopytkiewicz, Thompson street above Orthodox street, Philadelphia. Stone, 3 stories, 185x200 feet, slate roof, maple floors, tile work. Contract awarded Woodland Const. Co., Inc., 5905 Woodland avenue, Philadelphia, who are taking sub-bids.

**Residence (alts. and add.) to Apartments,** 750-52 South Martin street, Philadelphia. Ar-

chitect, W. Henry Wilson, 2038 Berks street, Philadelphia. Owner, George W. Smith, 750 Martin street, Philadelphia. Brick, rear addition, 3 stories, 21x16 feet, slag roof, hot water heating, electric lighting, tile work, plastering, mill work, cement, brick and galvanized iron work. Contract awarded George R. Bell, 1349 South May street, Philadelphia.

**Residence (alts.),** 6508 North Eighth street, Philadelphia. Architect, private plans. Owner, Louis Rosenau, on premises. Carpentry and mill work, plastering, tile work, painting and glazing, hardware, brick work (heating, plumbing and electric reserved). Contract awarded to George H. Evans, Inc., 105 North Thirteenth street, Philadelphia.

**Store (alts.),** 129 South Eighteenth street, Philadelphia. Architect, W. F. Koelle, Otis Building, Philadelphia. Owner, I. Grossman, Land Title Building, Philadelphia. Limestone front, metal set bulks. Contract awarded to Kier Const. Co., 1612 Locust street, Philadelphia.

**Moving Picture Theatre (alts.),** 747 South Third street, \$14,500. Architect, private plans. Owner, S. Morris, on premises. Tile and marble work, composition floors, hollow metal windows, fire doors, plastering, iron and steel work, concrete work. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

**Garage (add.),** 51 North Second street, Philadelphia, \$10,000. Architect, private plans. Owner, H. F. Heacock, on premises. Brick, 3 stories, irregular size, slag roof, ce-

ment floors, electric work. Contract awarded to Clayton Lofland, 229 North Water street, Philadelphia.

**Stores (8) (alts.),** 1101-15 Chestnut street, Philadelphia, \$11,500. Architect, private plans. Owners, Stephen Girard Estate, Lafayette Building, Philadelphia. Reinforcing floors, steel work, plastering, painting, glazing, carpentry, mill work, cement work. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

**Residence,** West side Cottman street, North of Whittaker street, \$8,000. Architect, private plans. Owner, Harry Crother, 134 East Ontario street, Philadelphia. Frame, 2 stories, 24x45 feet, oak and pine floors, electric lighting. Contract awarded to A. W. McKinley, 724 West Ansburys street, Philadelphia.

**Residence,** East side Frankford avenue, North of Arendel street, \$3,500. Architect, private plans. Owner, Mrs. A. C. Gilheson, 9101 Frankford avenue, Philadelphia. Brick, 2 stories, 18x46 feet, slag roof, pine floors, electric work. Contract awarded to Samuel G. Gilheson, 9101 Frankford avenue.

**Garage,** 1920-22 East Westmoreland street, Philadelphia, \$5,000. Architect, private plans. Owner, Edwin H. Read, 3332 Jasper street, Philadelphia. Brick, 1 story, 51x89 feet, slag roof, cement floor, electric light. Contract awarded to Taylor & Nicholas, 2628 Brad-dock street.

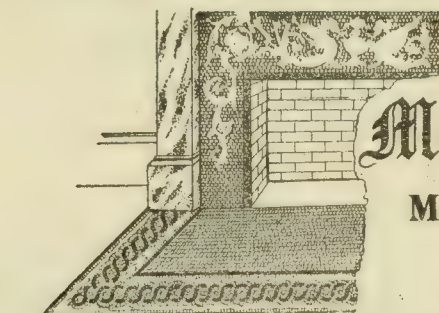
**Warehouse (add.),** Northeast Corner Delaware avenue and Tasker street, \$5,000. Architect, private plans. Owners, Philadelphia Fibre Box Board Mills, on premises. Brick, third story add., 62x53 feet, slag roof, electric work. Contract awarded to Louis Rosengarten, 5623 Race street, Philadelphia.

**Store (alts.),** 1212 Cherry street, Philadelphia, \$5,000. Architect, private plans. Owners, Wright, Tyndale & Van Roden, on premises. General alterations, carpentry, mill work, plastering, cement work, painting, glazing. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Residence,** South side Cottman street, West of Whitaker street, \$7,800. Architect, private plans. Owner, Frank W. Wheeler, care of builders. Frame, 2 stories, 25x35 feet, hot water heat, electric light, hardwood floors, tile work. Contract awarded to Garthly Brothers, 931 Hellerman street, Philadelphia.

**Residence,** West side Verree road, North of Ferndale street, \$5,000. Architect, private plans. Owner, F. C. Redey, 7500 Rising Sun avenue, Philadelphia. Frame, 2 stories, 24x20 feet, 11x11 feet, electric work, oak and pine floors. Contract awarded to William A. Kitcher, 845 Gilham street, Philadelphia.

**Residence,** North side Hoffnagle street, West of Halstead street, \$4,000. Architect, private plans. Owner, William Davis, Chel-



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tenham avenue, Philadelphia. Frame, 1 story, 37x22 feet, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to George Krewson, 330 Franklin street, Philadelphia.

**Residences (2)**, Torresdale, Philadelphia, total \$7,750. Architect, private plans. Owner, Charles Hepp, 2119 East Clearfield street, Philadelphia. Frame, 2 stories, 26x34 feet, electric work. Contract awarded to J. Robert Henderson, 3203 South Twenty-second street.

**Garage**, 2009 Ridge avenue (rear), Philadelphia, \$4,000. Architect, private plans. Owner, Miss Renie McAlonan, 1611 Brown street, Philadelphia. Brick, 2 stories, 20x30 feet, cement floors, slag roof, electric work. Contract awarded to George B. Smith & Son, 606 North Sixteenth street.

**Store and Residence (alts.)**, Northwest Corner Twenty-fifth and Oxford streets, \$4,000. Architect, private plans. Owner, J. Solomon, 1920 Oxford street, Philadelphia. General alterations. Contract awarded to Nathan Epstein, 2221 North Franklin street.

**Bakery (alts.)**, North side Glenwood avenue, East of Broad, \$20,000. Architect, A. G. Zimmerman, 85 Ninth avenue, New York. Owners, National Biscuit Co., Nineteenth avenue and Fifteenth street, New York. General alterations. Contract awarded to John Griffith & Sons Co., Twelfth and Glenwood avenue, Philadelphia.

**Manufacturing Building (add.)**, Northeast Corner Cottman and Edmund streets, Philadelphia, \$15,000. Owners, Mutual Hosiery Co., on premises. Brick, 2 stories add., 48x41½ feet, slag roof, electric work. Contract awarded to J. D. Fotheringham, 1000 Arrott street.

**Store and Hall (repairs)**, 3609-13 North Broad street, \$13,000. Architect, private plans. Owner, Paul A. Rineck, 3627 North Broad street, Philadelphia. General fire repairs. Contract awarded to A. N. Tatro, 1345 Arch street, Philadelphia.

**Building (alts.)**, Southeast Corner Front and Bainbridge streets, \$10,000. Architect, private plans. Owner, Henry J. Trainer, 701 South Front street, Philadelphia. General alterations. Contract awarded to Andrew W. Sherreff, 608 Chestnut street.

**Residence**, 5615 Race street, Philadelphia, \$4,200. Architect, private plans. Owner, Eschoel Scott, 5619 Race street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric work. Contract awarded to Louis Rosengarten, 5623 Race street, Philadelphia.

**Trestle**, 919 Diamond street, Philadelphia, \$10,000. Owners, S. Margolis & Co., 919 Diamond street, Philadelphia. Concrete and steel. Contract awarded to A. H. Moorshead, 67 Laurel street, Philadelphia.

**Apartments and Stores (alts. and add.)**, 2153 North Howard street, \$10,000. Architect, private plans. Owner, L. L. Whayland,

5730 Whitby avenue, Philadelphia. Brick, 3 stories, 20x19 feet, slag roof, general alterations. Contract awarded to H. J. Hayman, 5730 Whitby avenue, Philadelphia.

**Residences and Stores (2) (add. and alts.)**, 1337-39 Erie avenue, \$5,000 each. Architect, private plans. Owner, Frank C. Snedaker, Ninth and Tioga streets, Philadelphia. Brick, 2 stories, 18x22 feet, slag roof, heating. Contract awarded to H. E. Sweager, 4435 North Uber street, Philadelphia.

**Garage**, 925 South Fifty-first street, Philadelphia, \$4,000. Architect, private plans. Owner, Thomas Reddan, 5118 Warrington avenue, Philadelphia. Brick, 1 story, 20x90 feet, slag roof, cement floors. Contract awarded to D. D. Scott, Forty-seventh street, South of Chester avenue.

**Manufacturing Building**, Ashburne and Tulip streets, \$40,000. Architect, private plans. Owner, Henry F. Sachsenmaier, 926 North Third street, Philadelphia. Iron, 1 story, 116x208 feet, cement floor, corrugated iron roof. Contract awarded to Truseon Steel Co., 1432 South Penn Square.

**Machine Shop (add.)**, Northeast Corner Tioga and Salmon streets, \$35,000. Architect, private plans. Owners, Philadelphia Gear Works, 1120 Vine street, Philadelphia. Brick, 1 story, 103x102 feet, slag roof, cement floors. Contract awarded to A. R. Raff Cont. Co., 1625 West Thompson street.

**Foundry (add.)**, Northeast Corner State Road and Hellerman street, \$20,000. Architect, private plans. Owners, Dodge Steel Co., on premises. Steel and brick, 1 story, 56x116 feet, cement floors, steel sash, slag roof, electric lighting. Contract awarded to Austin Company, Bulletin Building, Philadelphia.

**Garages (2)**, East side Schuyler street, South Queen Lane, \$15,000 total. Architect, private plans. Owner, Charles G. Kirkpatrick, 540 West Queen Lane, Philadelphia. Brick, 1 story, 20x150 feet, slag roof, cement floors, electric work. Contract awarded to Paul Brosz, 2511 Huntingdon street, Philadelphia.

**Apartments and Offices (alts. and add.)**, 1809 Girard avenue, \$10,000. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owner, E. F. Roberts, on premises. Brick, 3 stories add., 15x10 feet, general alterations. Contract awarded to P. T. McCluskey, 24 South Seventh street, Philadelphia.

**Residence (add.)**, 1304 Albanus street, Philadelphia, \$2,800. Architect, private plans. Owner, Otto H. Ebert, on premises. Brick, 2 stories add., 14x20 feet, slag roof, electric work. Contract awarded to P. J.

Santamarie, 1241 West Cumberland street.

**Buildings (alts. and add.)**, 10 and 12 South Hicks street, \$2,500 each. Architect, private plans. Owner, Bernard J. Kane, 1035 Walnut street, Philadelphia. Brick, 3 stories, 14x7 feet, general alterations. Contract awarded to John Mattson, Camden, N. J.

**Residence (alts. and add.)**, 118-20 South street, \$2,000. Architect, private plans. Owner, Frank Campo, on premises. Brick, second story add., 13x20 feet, general alterations. Contract awarded to N. De Gregoris, 1011 Carpenter street, Philadelphia.

**Garage**, West side Fifty-third street, South of Woodland avenue, \$2,500. Architect, private plans. Owner, Mrs. S. Dougherty, 5301 Woodland avenue, Philadelphia. Brick, 1 story, 44x30 feet, slag roof, cement floors, electric work. Contract awarded to Edward Holland, 124 South Fiftieth street, Philadelphia.

**Residence (alts. and add.)**, South side Pattison street, West of Seventeenth, \$2,500. Architect, private plans. Owner, Samuel Simon, 2401 McKean street, Philadelphia. Brick, 1 story, 12x16 feet, general alterations. Contract awarded to James A. Fitzgerald & Sons, 1623 Snyder avenue.

**Store (alts.)**, 1707 Ridge avenue, Philadelphia, \$2,200. Architect, private plans. Owner, John A. Tate, 1701 Ridge avenue, Philadelphia. General alterations. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street.

**Garage**, 1542 North Franklin street, Philadelphia, \$2,125. Architect, private plans. Owner, Charles Abrams, on premises. Brick, 1 story, 28x19 feet, slag roof, cement floors. Contract awarded to J. Fleischer & Sons, 739 Roosevelt Boulevard.

**Telephone Exchange (alts.)**, Northwest Corner Fourth and Manning streets, \$4,500. Architect, private plans. Owners, Bell Telephone Co., 1230 Arch street, Philadelphia. Vaults in basement, concrete work, steel doors. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residence and Store (alts.)**, 1901 West Nor-

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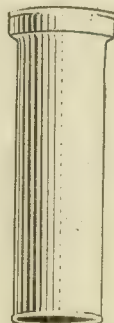
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ris street, \$2,500. Architect, private plans. Owner, William Schilling, on premises. General alterations. Contract awarded to Otto Malz, 2002 North Fourth street, Philadelphia.

**Residence (alts. and add.)**, 1934 East Cumberland street, \$2,000. Architect, private plans. Owner, Bayard S. Buckley, 1936 East Cumberland street, Philadelphia. Brick, third story add., 8x14 feet, general alterations. Contract awarded to William E. Stone, 2069 East Dauphin street, Philadelphia.

## Pennsylvania Construction News

**Mother House and Academy**, Erie, Pa., \$500,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Erie, Pa. Brick, steam heat, electric light, slate roof, hardwood and pine floors. Plans in progress.

**Combination School Building**, Elkins Park, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. James' Roman Catholic Church, care of Rev. James J. Gibbons, formerly of Presentation of B. V. M., Cheltenham, Pa. Preliminary plans in progress. Too early for details.

**Show Room**, Minersville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, S. E. Noel, Minersville, Pa. Fireproof, 2 stories, 50x50 feet, slag roof, hardwood floors, electric lighting. Plans in progress. Note changes.

**Store and Residence**, Coatesville, Pa. Architect, Andrew C. Borzner, 717 Walnut

street, Philadelphia. Owner, Harry Sax, Parkesburg, Pa. Cinder block, 2 stories, 76x35 feet, hot water heat, electric light, slag roof, hardwood and yellow pine floors, plate glass, metal bars. Owner will be ready for general bids in two weeks. Plans in progress.

**Hotel**, Eighth and Scull streets, Lebanon, Pa., \$500,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon Hotel Co., care of architects. Steel, brick, fireproof, stone trim, 6 stories, 150 rooms. Preliminary plans in progress.

**Store and Apartment**, Ardmore, Pa. Architects, Mackenzie & Wiley, Liberty Building, Philadelphia. Owner, name withheld. Brick, 2 stories, consisting of 4 stores and 5 apartments. Plans in progress.

**Residences (4)**, Ardmore, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 33x68 feet, hot water heat, electric work, tile work, slate roof, hardwood floors. Plans in progress.

**Residences and Garages (5)**, Wynnewood, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 30x48 feet, hot water heat, electric light, tile work, slate and tile roof, hardwood floors. Plans in progress.

**Apartment House**, Sixty-ninth Street Section, Upper Darby, Pa. Architect, Clarence E. Wunder, 1432 Locust street, Philadelphia. Owner, M. P. Levy, Upper Darby, Pa. Stone and brick, 4 stories, 100x200 feet. Plans in progress.

**Residence**, Cynwyd, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, William M. West, care of architect. Stone, steel and plaster, 2½ stories, 41x46 feet, metal lath (plumbing, heating, electric reserved), shingle roof, oak and yellow pine floors, bond, ornamental iron work. Architect taking revised bids in ten days.

**Residence (alts.)**, Bustleton, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Hot water heat, electric light, plumbing, hardwood floors, tile and cement work. Architect taking sub-bids.

**Residence and Garage**, Swarthmore, Pa. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Stone, frame and stucco, 2½ stories, 42x30 feet, 10x18 feet, shingle roof, hardwood, yellow pine and tile floors, hot water heat, electric light, two enclosed porches. Architect ready for bids in three weeks.

**Glenside Weldon School**, Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Town-

ship School Board, C. M. Doll, secretary, Elkins Park. Low bidder: Harry Murphy, Willow Grove, Pa., \$188,000.

**Parsonage**, Brookline, Pa. Architect, George P. Baum, 1511 Arch street, Philadelphia. Owners, Temple Lutheran Church, care of Rev. W. Nye, Brookline, Pa. Stone, frame and stucco, 3 stories, 28x40 feet. Architect taking bids.

**House**, 29 Garfield avenue, Manoa Heights, Delaware County, Pa. Architect, Charles C. Schweiker, 33 North Felton street, Philadelphia. Owner, Charles C. Schweiker, 33 North Felton street, Philadelphia. Brick, 2½ stories, 28x29 feet, hot water heat, electric light, tile bath, slate roof, oak and yellow pine floors. Owner taking sub-bids due as soon as possible.

**School (alts. and add.)**, Reading, Pa. Architect, Fred Muhlenberg, Liberty Bank Building, Reading, Pa. Owner, Lee Stewart School, care of architect. Brick and frame, 2 stories, 20x50 feet, composition roof, hardwood floors, steam heat, electric light, general interior alterations. Architect ready for bids due July 1st.

**Stores and Apartments (4)**, Marlborough and West Chester Pike, Delaware County, Pa. Architect, Charles C. Schweiker, 33 North Felton street, Philadelphia. Owner, Adolph Andrien, 123 North Sixty-third street, Philadelphia. Stone and stucco on cement block, (3) 2 story, (1) 3 stories, 18x45 feet, hot water heat, electric light, tile baths, slag roof, oak and yellow pine floors, metal lath, hollow metal skylights, flush plate glass bulks, miscellaneous iron work, grills and grating, metal ceilings. Owner taking sub-bids due as soon as possible.

**Storm Drain**, Sharon Hill, Pa. Engineer, A. F. Damon, Jr., Post Office Building, Upper Darby, Pa. Owners, Borough of Sharon Hill, care of H. B. Anseutz, Secretary of Council, Sharon Hill, Pa. Construction of 30-inch storm drain. Certified check of \$100 accompanying each bid. Owners taking bids due July 2nd, 8 P. M.

**Residences (34)**, Berbro avenue, near West Chester Pike, Delaware County, Pa. Architect engineer, M. M. Boonin, 1506 North Alden street, Philadelphia. Owners, Berman & Guberman, Sixty-eighth and Greenway avenue, Philadelphia. Brick, stone, 2 stories, 15x30 feet, 11½x15 feet, hot water heat, electric light, tile bath, slag roof, pine, oak and tile floors, terra cotta flues. Owner taking sub-bids due as soon as possible.

**Residence into Apartments (alts. and add.)**, 30-40 North Lansdowne avenue, Lansdowne, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner,

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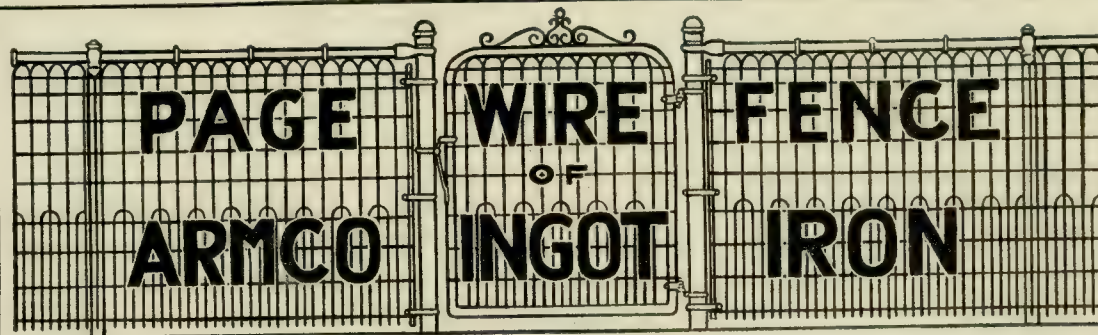
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Joseph R. Rudolph, care of architect. Brick, cut stone, steel and iron, plastering, carpentry and mill work, painting and glazing, tiling, hardware, sheet metal work, cork, composition floors, canvas floors, shingle roof (plumbing, heating and electric and finished hardware reserved). Architect taking bids due June 29th.

**Residence**, Susquehanna and Brook Road, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Philip Moore, 6644 Germantown avenue, Philadelphia. Stone and brick, 2½ stories, 54x27 feet, hot water heat, electric light, tile work, slate roof, oak and yellow pine floors. Architect taking bids due June 28th.

**Dormitory Building**, Villa Nova, Pa. Architects, Wilson, Erye & McIlvaine, 1003 Spruce street, Philadelphia. Owners, Villa Nova College, Villa Nova, Pa. Reinforced concrete, stone, cut stone, 4 stories and basement, 111x30 feet, 30x70 feet, slate roof, electric light, metal lath, metal sash, oak, yellow pine, composition and linoleum floors, plumbing, metal partitions, bond, iron work, ash house and sieves. Architects taking bids due June 29th.

**Residence**, Merion, Pa., \$15,000. Architects, Stetler & Deysher, 1580 North Fifty-second street, Philadelphia. Owner, Walter F. Cornman, 509 North Thirty-sixth street, Philadelphia. Stone and stucco, 2½ stories, vapor heat, electric light, tile work, shingle roof, hardwood floors. Owner taking bids.

**Residence (alts.)**, Rydal, Pa. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owner, W. S. Peace, Rydal, Pa. Painting, heating, plumbing and electric reserved. Oak and yellow pine floors, carpentry and mill work, plastering, bond. Architect taking bids due June 28th.

**Y. M. C. A. Building**, York, Pa., \$550,000. Architect, Edward Leber, Hay Building, York, Pa. Owners, Y. M. C. A. of York, Mr. Bailey, secretary, York, Pa. Architect selected.

**Store, Apartment and Garage**, North George street, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, W. J. Smutz, 24 North George street, York, Pa. Brick, steel, 3 stories, 29x100 feet, 32x90 feet, slag roof, hardwood and concrete floors, vapor heat, electric light, tile work, roof ventilators, rolled steel skylights. Plans in progress.

**Residence**, Cynwyd, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Holcomb & Forman, Eighth and Luzerne streets, Philadelphia. Frame, 2½ stories, 38x37 feet, hot water heat, electric light, shingle roof, oak and yellow pine floors, bond. Architects taking bids due July 2nd, 2 P. M.

**Post Headquarters (alts.)**, Norristown, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, George A. Althouse, Post No. 39, American Legion, Norristown, Pa. Brick work, changing partitions, heating and lighting, plumbing, carpentry, fire escapes, general alterations. Architect taking bids due July 5th.

M. Capobianco, Architect, has opened new offices at 721 Walnut St., Philadelphia, where he will continue the practice of architecture.

## Pennsylvania Contracts Awarded

**Residence**, Chestnut Hill, Pa., \$200,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Arthur H. Lea, Drexel Building, Philadelphia. Stone, 2½ stories, 139x50 feet, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, slate roof, oak and yellow pine floors. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

**House**, Levering and Derwyn Road, Cynwyd, Pa. Architect, Charles C. Schweiker, 33 North Felton street, Philadelphia. Owner, W. Frank Bull, 6336 Green street, Philadelphia. Frame and stucco, 2½ stories, 34x24 feet, hot water heat, electric light, tile baths, bond, shingle roof, oak and pine floors. Contract awarded to John Borylia, Manoa Heights, Delaware County, Pa.

**Fire House**, Fourth and Lewis streets, Harrisburg, Pa. Architect, private plans. Owners, Riverside Fire Company, C. N. Carl, 301 Edward street, Harrisburg, Pa. Brick, 2 stories, 53x140 feet, slag roof, concrete floors, electric lighting. Contract awarded to M. L. Grossman, Harrisburg, Pa.

**Power House and Garage**, Wyomissing, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Hick Brothers, Wyomissing, Pa. Concrete, brick and steel, 1 story, 35x40 feet, slag roof, concrete floors, rolled steel sash, fire doors. Contract awarded to L. H. Focht & Son, Baer Building, Reading, Pa.

**School**, McKinley, Pa., \$64,292. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owners, School Board of Abington Township, care of C. M. Doll, secretary, Elkins Park. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

**Garage**, Ambler, Pa. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owner, W. H. Hart, Ambler, Pa. Contract awarded to Amos W. Walton, Ambler, Pa.

**High School**, Abington, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Contract awarded to Harry Murphy, Willow Grove, \$825,000.

**Printing House**, Hanover, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, C. N. Myers, 305 Baltimore street, Hanover, Pa. Brick, steel, concrete, fireproof, 2 stories and basement, 61x106 feet, composition roof, concrete floors, vapor heat, electric light, metal lumber, freight elevators, roof ventilators, rolled steel sash and skylights, floor hardener, iron stairs. Contract awarded to O. H. Hostetter, Hanover, Pa.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Clarion County, Route 91, Washington

Township, \$122,279.05. Contract awarded to R. V. Baldwin, Coraopolis, Pa.

**Erie County**, Route 304, North East Township, \$100,552.25. Contract awarded to Charles H. Fry Const. Co., Erie, Pa.

**Indiana County**, R-68, White Township, \$29,972.45. Contract awarded to Owen & Plummer, Inc., Johnstown, Pa.

**Lawrence County**, Route 233, Scott and Plain Grove Townships, \$199,391.96. Contract awarded to Burns & Burt, Ellwood City, Pa.

**Crawford County**, Route 83, Pine and Conneaut Townships, \$155,501.10. Contract awarded to H. E. Bunce, Cambridge Springs, Pa.

## New Jersey Construction News

**Masonic Temple Building**, Trenton, N. J., \$800,000. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Masonic Temple Association, care of M. Tescome, Trenton Theatre Building, Trenton, N. J. Architect selected.

**Store (add.)**, 113 North Broad street, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Fleron's North Broad Store, 113 North Broad street, Trenton, N. J. Brick, stone front, 2 stories, 18x80 feet, slag roof, pine floors, electric lighting, metal lath, plate glass, copper work. Plans in progress.

**Store and Apartment (alts. and add.)**, 5 Center street, Trenton. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Mr. Carey, care of architect. Brick, 3 stories and basement, 18x38 feet, slag roof, pine floors, electric light, tile work. Plans in progress.

**Church**, Tenth and Central avenue, Ocean City, N. J. Architect, George P. Baum, 1511 Arch street, Philadelphia. Owners, St. John's Lutheran Church, care of W. H. Diestroth, 507 Ninth street, Ocean City, N. J. Stone, 1 story and basement, 32x72 feet. Architect drawing new plans.

**Residences (2)**, Haddon Heights, N. J., \$8,500 each. Architect, private plans. Owners, Britton & Shalles, Haddon Heights, N. J. Frame, 2½ stories, 26x34 feet, hot water heat, electric light, shingle roof. Owner will build.

**Store and Apartment (alts. and add.)**, 41 West State street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, J. S. Vaughan, care of architect. Brick, 3 stories and basement, 20x80 feet, slag roof, pine floors, hot water heat, electric light, tile work, hollow tile. Architect ready for bids due July 2nd.

**Residence**, Montclair, N. J. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owners, Mason Realty Co., Montclair, N. J. Brick, hollow tile, cut stone, limestone and bluestone, 2½ stories, 67x46 feet,

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1822 CHESTNUT STREET - PHILADELPHIA



hot water heat, metal lath, tile and marble work, bond, iron work, slate and slag roof, oak floors. Architect taking bids due July 3rd. The following items are all reserved: Interior doors, plaster lighting fixtures, fly screens, refrigerators, painting of plastered walls, finished hardware, electric wiring, bells, speaking tubes, telephones, coke and gas ranges, trunk lift, wall safe in bedroom.

**Public School Building**, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education of Woodbury, High School Building, Woodbury, N. J. Brick, cast stone, cut stone, reinforced concrete and steel, 3 stories and basement, 181x64 feet, 174x74 feet (heating, plumbing, electric and ventilators reserved), cement and maple floors, hollow tile, safety treads, roof ventilators, ornamental iron work and stairs, floor hardener, bond, hollow metal and kalamein doors, hollow metal skylights, metal lath. Low bidders: H. John Homan Co., 1701 Chestnut street, Philadelphia, \$318,600; F. V. Warren, 1913 Arch street, Philadelphia, \$325,397. Plumbing, William Newell & Son, 1707 Sansom street, Philadelphia, \$16,386. Heating and ventilating, H. H. Hutchinson, 1020 Callowhill street, \$39,345, Unit 4 deduct \$1,000; N. Connolly, 1404 North Eighteenth street, Philadelphia, \$42,222, Unit 4 deduct \$4,000. Electric, Buzby & Thomas, 1109 Race street, Philadelphia, \$9,440.

**Main Building (alts.)**, Trenton, N. J. Architect, A. B. Mills, Capitol Building, Trenton, N. J. Owners, State Home for Girls, Dr. M. B. Harris, Trenton, N. J. All bids rejected.

**Infirmary (add.)**, Trenton, N. J. Architect, A. B. Mills, Capitol Building, Trenton, N. J. Owners, State Home for Girls, Dr. M. B. Harris, Trenton, N. J. All bids rejected.

## New Jersey Contracts Awarded

**Theatre**, Westville, N. J. Architect, J. E. Sindoni, 1905 South Sixteenth street, Philadelphia. Owner, B. A. Harrison, Westville, N. J. Cement block, brick and stucco, 1 story, 39x102 feet, steam heat, slag roof, electric light, pine floors, roof ventilators, hollow metal skylights, kalamein doors, metal ceilings. Contract awarded to John D. Lawrence, Westville, N. J.

**Hospital (alts. and add.)**, 177-179 Brunswick street, Trenton. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Orthopedic Hospital, care of Dr. Ernest, on premises. Brick, 1 story add., 19x19 feet, slag roof, wood floors, vapor heat, electric light, tile and marble work, safety treads, hollow metal doors, ornamental iron work. Contract awarded to Harrison & Fisher, Trenton, N. J.

**Segregation Cottage**, Jamesburg, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Home for Boys, care of C. Derrick, Jamesburg, N. J. Brick, reinforced concrete, 1 story, 60x92 feet, slate and slag roof, concrete floors, electric light, tile and marble work, rolled steel sash. Contract awarded to Carroll & Pullen, Princeton, N. J.

**Residence**, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owner, Dr. Walter A. Taylor, 68 Prospect street, Trenton, N. J. Frame, 2½ stories, 28x28 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Contract awarded to William C. Aker, 216 Hollywood Road, Trenton, N. J.

**Residence (2-family)**, 837 Stevenson avenue, Irvington, N. J. Architect, M. Capobianco, 721 Walnut street. Owner, J. Bel-

lino, Irvington, N. J. Frame and brick, 2½ stories, 24x56 feet, steam heat, electric light, yellow pine floors, tile roof, tile work. Contract awarded to Calviero Cancelosi, 2028 Frankford avenue, Philadelphia.

## Miscellaneous Construction News

**Bank (alts. and add.)**, Dover, Del. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Farmers' Bank, Dover, Del. Architect taking bids July 2nd at noon.

**Church**, Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owners, Evangelical Lutheran Church, Rev. U. S. G. Rupp, Frederick, Md. Interior alterations, hardwood floors, electric light, tile work, interior decoration, ornamental plaster. Plans in progress.

**Grade School**, Aberdeen, Md. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, School Board of Harford County, C. M. Wright, Belair, Md. Brick, semi-fireproof, 2 stories, 8 rooms, composition roof, yellow pine floors, electric light (heating reserved), metal lath, hollow tile, roof ventilators, rolled steel skylights, bond, iron stairs. Owners taking bids due June 27th.

(Continued from page 404)

results that we have tried to provide for in our designs and that they are correctly interpreting what are sometimes, perhaps, vague specifications which could be much improved as Mr. Jones so well told us yesterday.

It seems to me, therefore, that the problem can be rightly solved and in part almost immediately solved if we can begin at once to improve our specifications, our methods and ourselves, and by real human contact restore interest and pride of craft.

If we make the workers feel that we recognize their part as real factors in the success of any enterprise that their efforts and the results of their work form a large part of the success of our work, and the satisfaction of our client,—if we do that, the apprenticeship problem will largely solve itself.

I would like to suggest, however, in view of the points raised during this convention on the apparent lack of apprentices, that some step might be agreed upon whereby the Industrial Relationship Committee could appoint a sub-committee on Apprenticeship. In its title I would, however, include Vocational Guidance, because the fault it seems to me lies largely with the lack of guidance toward manual labor in the schools.

I believe that the Institute could do nothing of much greater value than to create such a Committee if through it a new Document might be prepared which could well be entitled "The Romance of Building," and be made available to the schools everywhere. In this booklet could be portrayed intelligently and enthusiastically, the advantages of being

a worker on a building and of having an opportunity to co-operate with architects and all other craftsmen in being of ever increasing service to the people of this country.

## REPORT OF CONFERENCE ON SIMPLIFICATION OF HOLLOW BUILDING TILE

### *Elimination of 23 of the 36 Prevailing Sizes Recommended*

At a meeting held June 19, 1923, at the Department of Commerce, the Standards Committee of the Hollow Building Tile Association reported to the Department's Division of Simplified Practice, the results of a survey which the Association had made of existing varieties in types, sizes, and weights of hollow building tile.

The survey showed 36 different sizes—each made in a wide variety of weights. The Committee recommended the elimination of 23 of the 36 sizes, and the retention of 13 as "standards" for the industry. A standard weight, with a permissible variation of 5 per cent. over or under the standard weight, was also recommended for each of the 13 sizes retained.

The Committee requested the Department of Commerce, through its Division of Simplified Practice, to call a general conference next October of manufacturers, architects, engineers, contractors, and builders to discuss the general adoption and use of the recommended standard sizes and weights.

Those present at today's meeting were: Mr. E. R. Sturtevant, Fraser Brick Co., Dallas, Tex.

Mr. H. R. Straight, Adel Clay Products Co., Adel, Iowa.

Mr. H. C. Downer, Malvern Fire Clay Co., Malvern, Ohio.

Mr. H. P. Bevier, National Fire Proofing Co., New York.

Mr. C. W. Dixon, Columbus Brick & Tile Co., Columbus, Ga.

Mr. F. J. Huse, Research Engineer for the Association, Chicago, Ill.

Mr. E. W. McCullough, Mgr., Fabricated Production Department, Chamber of Commerce of United States, Washington, D. C.

Ray M. Hudson, Division of Simplified Practice, Department of Commerce.

"This is another decided step forward in the Hoover plan to reduce the cost of building construction through the elimination of waste in industry," Ray M. Hudson, the Commerce Department's representative, declared as the session closed.

**You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.**



## FACTS ABOUT MORTGAGES THAT CONTRACTORS SHOULD KNOW

The field of the first mortgage real estate bond as a popular form of investment has developed abreast of the evolution of the sky-scraper and many-roomed apartment house from the modest structures of the '90s. The explanation is two fold. In the first place, as office buildings grew in number and size and apartment houses and hotels were enlarged to meet the demands of growing cities, the amount of capital entailed in individual building operations increased. It was less easy for borrowers to get their loans, as they had before, from institutions and private investors of means. Too much money was involved. It became necessary to draw from many sources. It became essential, also, to give all participants in a mortgage an equal degree of protection, and so the same process was followed as in case of a railroad loan of many millions of dollars. First mortgage loans were split up into pieces, just as a railroad loan was divided, and investors were able to acquire an interest of either large or small amount.

The second factor assisting in the developing of first mortgage real estate bonds was the earning power of buildings constructed to produce a regular income. In the old-fashioned conception of a mortgage the primary consideration behind a mortgage loan was the security afforded by land and building values. That was the chief thing in the lender's mind. The production of revenue from a building was the borrower's affair. If it was sufficient to cover interest and ultimately provide for the principal payment all well and good. If it fell short, the money would have to be raised from some other source or the mortgage was foreclosed. Final appreciation of the fact that the earnings of a well-constructed, well-located apartment house or hotel would not only insure interest payments but also provide for the gradual retirement of the loan, imparted a higher investment quality to real estate mortgages than they had enjoyed before. The element of risk was pretty well reduced to simple calculations in arithmetic plus a conservative valuation of land and building selected as security for a mortgage under which bonds were issued.

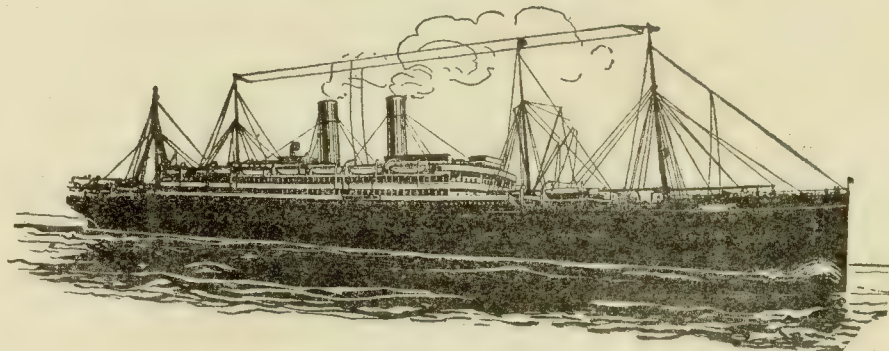
A great gap separates the modern way of handling real estate loans from the cumbersome and rather troublesome method which the investor had to follow a half century ago. In theory the mortgage on real estate is the simplest sort of an investment; in practice it is different. Its simplicity is attested to by the fact that mortgages existed in the very dawn of history, shown by the records left on

## ANNOUNCEMENT

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clay tablets by the Babylonians. And while the process of placing and retiring such loans was refined in some particulars as the centuries passed, still the holder of a mortgage had the same tasks and difficulties in 1880 A. D. as in 1880 B. C. He had to collect his interest; he had to allow renewals from time to time if the borrower would not or could not retire the principal; he had to run the risk of depreciating security behind his loan, if buildings ran down or land values declined; he had to check up the payment of taxes and fire insurance premiums; he had to take over a property now and then through foreclosure.

The details of collecting interest and safeguarding equities are looked after by big investors by systems commensurate with the money involved; but for the average investor in real estate mortgages the first mortgage bond, issued by a responsible bond house, removes a great deal of work and worry. He does not have to collect his interest, for that is done for him. He does not have to wonder whether the security behind his bond is depreciating, for under the method now followed by the more conservative underwriting firms, the security is bound to increase from month to month and year to year until the loan matures. And he does not have to fuss with renewals, for the reason that his bond falls due on a definite date and is paid off without delay.

There are several kinds of mortgage bonds, but in general, the same principle is followed by investment brokers to protect the interest of bondholders. The procedure usually followed now is to issue bonds secured by a mortgage on a particular property, such as an office building. Assume that the structure is to cost \$1,000,000 and the land on which it will be situated is appraised at \$400,000. The builder will negotiate with a banker for a first mortgage loan of, say, \$900,000 (about 65 per cent. of the value of the completed property), and will make other arrangements for raising the remaining \$500,000. Instead of seeking a single investor with \$900,000, or two investors with \$450,000 each, the mortgage banker will deposit the original mortgage and its accompany papers with a trustee and issue bonds for an amount equivalent to the size of the mortgage. These bonds may be in denominations of \$1,000 \$500 and \$100, thus providing amounts convenient for almost any investor. Instead of the entire loan maturing at one time, it will be arranged so that certain amounts become due each year, with the result that the investor has a choice of maturities as well as denominations.

The investor has no effort to make except to buy the bond of the size he wants. The collection of interest and principal,

checking payments of taxes and fire insurance premiums, as well as negotiations in making the loan, such as appraising the property, examining the title, etc., is attended to by the banker. A well-established concern has a wider experience than any individual investor can obtain, is able to command the services of experts in each department and is able to supply the investor with a security singularly free from risk or annoying details of management.

A prevailing policy, and one which increases the safety of real estate mortgage bonds, is that of requiring the borrower to make monthly payments in a sinking fund established to meet semi-annual interest and annual retirement of a part of the mortgage. The original mortgage remains as a lien against the property until the last bond has been retired; hence, as bonds are paid off the equity which the remaining bonds have in the property steadily increases. This operation is worthy of illustration.

Suppose that under a certain mortgage \$60,000 in principal and \$60,000 in interest are due in a given year. The total of \$120,000 must be provided in twelve monthly installments of equal size—\$10,000. The aggregate income of the building, of course, is much in excess of \$10,000 a month, as it was on the basis of receipts of considerably more than the bare mortgage requirements that the loan was negotiated. In the first six months as bond coupons mature, \$30,000 is paid out of accumulated payments. At the end of the year \$30,000 more interest and \$60,000 for principal payment are due. There is no such strain as might fall upon the borrower if the full principal payment and a half year's interest had to be provided near the end of the year, and at the same time the lender's position is as strong in any one month as in any other month. Monthly payments make it the first business of the owner of the building to meet the requirements of the bond owners.

First mortgage real estate bonds sell at par. The rate of interest varies from  $5\frac{1}{2}$  to 7 or  $7\frac{1}{2}$  per cent. The same money market influences which shape the amount of interest paid on a railroad, public utility or manufacturing company loan govern the real estate mortgage market to a degree. But, in addition, factors peculiar to communities in which the building securing the mortgage is erected bear upon the rate. Rates in the South are higher than in the North and Middle West, for the reason that Southern borrowers of many classes are active bidders for capital to finance industrial as well as municipal and housing developments.

The principal concern of the buyer of first mortgage real estate bonds is not the rate of interest nor the security behind his investment. It is the reputation

and conservatism of the underwriting bankers. When all is said and done, it is upon the banker that the bond buyers must rely for accurate appraisal of values of property securing a loan, for enforcement of the mortgage provisions and for the proper handling of maturities.—*National Builder*.

#### A FEW DON'T FOR HOME BUILDERS

Don't kick about the cost for "extras" if you order them.

Don't assume that the lowest bidder is always the most satisfactory.

Don't take anyone's words about "lump-sum" prices—investigate before you build.

Don't change your mind after the house is half built. Changes cost money.

Don't expect solid gold door knobs when the allowance for all the hardware is only \$50.00.

Don't think because your neighbor's house was built before the war at a cost of \$5,000 that you can duplicate it today at that price. Labor and materials have gone up since then.

Don't expect your architect to do his work for nothing. He must be paid for the work he does. He probably knows more about building houses than you do. Trust him and don't deceive him as to what you really can afford to spend.

Don't think that the dream house you have in mind, or the plan you have partially decided upon, is the one that will best fit any property. Study your lot, your neighborhood, your street frontage, and the types of homes surrounding.

Don't expect that your house won't settle, the ceilings crack and the doors sag, if your house is not properly braced, framed and nailed.

Don't forget that four nails are more than twice as good as two, and are better insurance against sagging doors, cracked ceilings, warping woodwork.

Don't forget that your local dealers, contractors and supply men are equipped to give you very great help and a lot of valuable information. Their reputations are at stake. Most of these men consider their reputations far more important than the materials they use.

Don't make the mistake of building from sketchy plans, or no plans at all. Nothing is more expensive than rule-of-thumb planning, or hit and miss building. Railroads cannot operate trains without time tables. There is no quicker way to wreck your purse than building without an accurate buying and building schedule. This means carefully prepared plans, that are complete in every respect.

—*The Small House*.



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## BUILDERS' SUPPLIES.

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## GARAGE HEATERS.

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## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
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## LIGHT IRON CONSTRUCTION.

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Miller, Henry M., 46-48-50 N. 2nd St., Phila.

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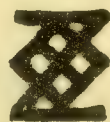
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Vol. XXXVIII, No. 27  
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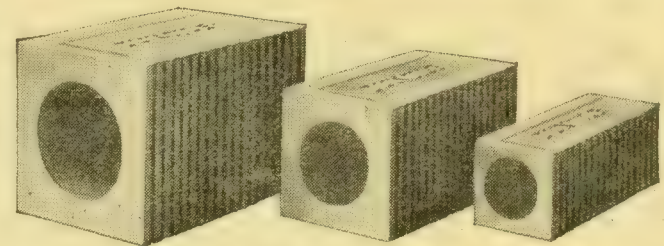
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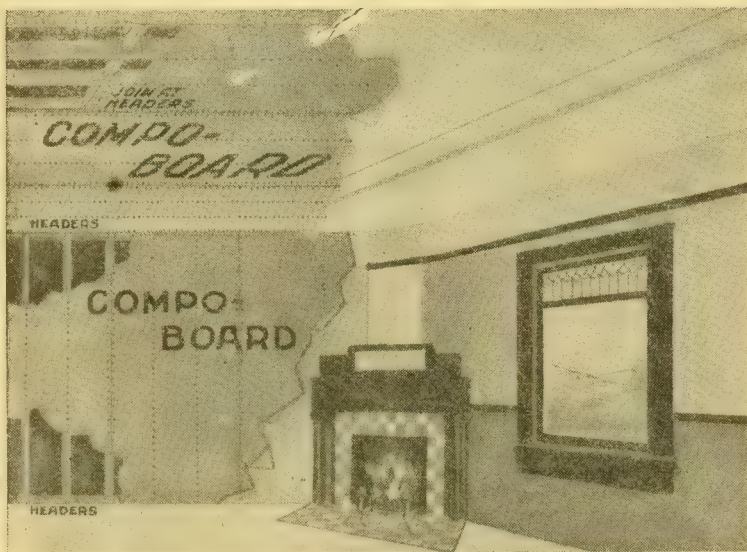
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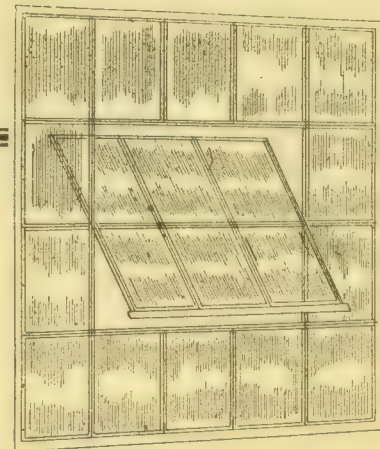
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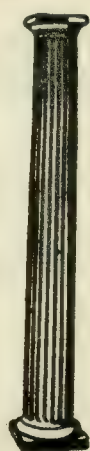


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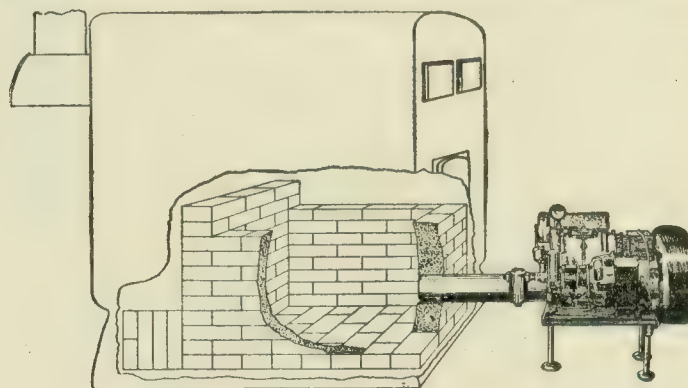
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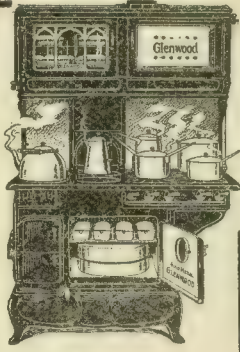


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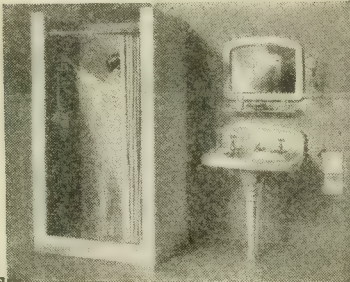


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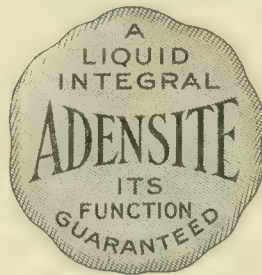
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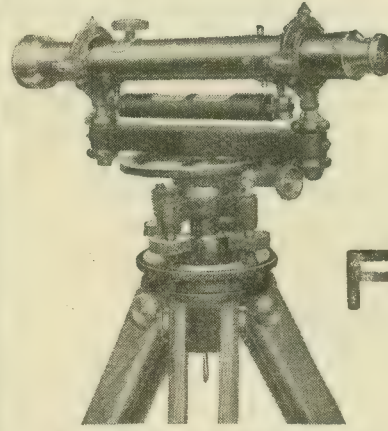
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 27

PHILADELPHIA  
July 4, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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H. A. Lang.....Vice-President  
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## As The Editor Sees It



### MORE HELP FOR HOME BUILDERS

By HAROLD CARY in *Collier's*, The  
National Weekly

Ernest Flagg, who built the great Singer building, is now designing small houses. He has put up more than 500 attractive houses at a saving of one-third their ordinary building cost. He has given the greater part of his life to the working out of ways and means to strip small houses of their sham; to make them cheaper and more substantial, and vastly better looking.

In the face of rising costs of both materials and labor, Ernest Flagg, one of America's two or three greatest architects, is having houses built at a saving of one-third the cost ordinarily required. By the use of his methods of design and construction a builder can save 30 to 40 per cent. of the cost price of a modern house of five to twenty rooms.

The figures are not merely on paper. Buildings are being put up of stone with large fireplaces, with all modern conveniences, for \$10,000 which would cost you under present conditions, with ordinary methods, a full \$15,000.

They are not ready-cut, or sectional, or poured concrete, or done on any large-scale factory-production scheme. They are individual, with walls of masonry a foot and a half thick, or more.

There is no need to cup hand at ear to hear a chorus of disclaimers. That

chorus is always heard because, as human beings, we are so fond of that weak human phrase: "It can't be done." But it is being done and nothing prevents its being done almost everywhere in the United States except ignorance of the means, dogged stubbornness, conservatism, and the old belief that what was a good way for our fathers must be the best way for us.

It is against such prejudices that Ernest Flagg has gone ahead. His was the daring genius that erected the first great tower on Manhattan Island. For years it was the highest commercial structure in the world, rising 612 feet above the street. For years this skyscraper, the Singer Building, was a symbol of American business enterprise, and today it ranks among the most beautiful pieces of architecture in the world. So in a great new development of art, Flagg pointed the way and created one of the wonders of the world, yet the critics of architecture will not admit that the Singer Building, great as it is, is his real monument.

They point to the sheer loveliness of the Corcoran Art Gallery in Washington, D. C., and are willing to stand on the belief that no structure in the world far exceeds it as a work of architecture and design. The Naval Academy at Annapolis is also from his board, as are many other private and public buildings of great worth. Unquestionably most cri-

tics would include Flagg among a choice of the three greatest American architects, probably bracketing this son of a Brooklyn minister with Cass Gilbert and Stanford White.

### "Build 'Er the Old-fashioned Way"

There has been little advance in fundamental building ideas for generations. While design has been improving since the day of Mansard and his amazing roofs, while the telephone, electric lights, modern plumbing, the automobile, and countless other engineering improvements have been winning universal approval, we have stuck like a burr to old-fashioned ideas that are, indeed, completely outworn. You see, building a house is an enormously important undertaking in most family lives. It is the biggest investment of a lifetime. A mistake or a bad idea may be tragic. "Build 'er up in the good old-fashioned way!" you tell your contractor, and he proceeds to build it in the bad old-fashioned way.

To do anything new takes courage. Only a violent upset puts a mind in a receptive mood for something out of the ordinary.

But while Flagg was designing large public buildings he was playing and experimenting with small private houses. It seems probable that his deepest interest really lay in improving the dwellings of American householders. He was working out ways and means to strip them of sham; to make them cheaper,

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more substantial, and vastly better-looking. He was, perhaps, working to overcome the fact that fully 90 per cent. of American houses are built entirely without the aid of an architect: working against the prejudice that to have an architect is to increase greatly your cost of building.

#### *Why Do Houses Have Attics?*

When I visited Flagg in his architectural "laboratory," at Dongan Hills, Staten Island, I found this big, ruddy-faced, white-haired man bang in the middle of a new project. He was building a house for one of his friends and at the moment I hove in sight was chipping rock, trying to uncover a hidden beauty in the stone that was being used. He started right in, hammer and tongs, explaining rapidly and clearly those departures which were being used in this house, and which were already proved in other buildings to be a stunning success.

"The object of this work," he began at once, "is to improve the design and construction of small houses while reducing their cost."

Now I wanted so eagerly to know some figures that I could not wait, so I told him about the foundation wall which was being built for me up in Westchester County at a contract price of 45 cents a cubic foot. Before me was a Flagg foundation wall, a thing of real and permanent beauty. "How much is that costing?" I asked.

He called the foreman in charge of construction. "You figured the cost in that wall yesterday, didn't you?" Mr. Flagg asked.

"Yes, sir," said the foreman. He pulled a sheaf of papers out of his pocket. "Here they are, sir. It's just six cents a cubic foot."

And I think that it was from then on that I belonged to the group of admirers of Ernest Flagg.

Wood has been so cheap in the United States that we have used it almost everywhere. Stone has been little used because of its supposed greater cost. It is cheaper by far in the long run, of course, and now since wood is becoming scarcer and more expensive and since there are the new ways of utilizing it, Mr. Flagg is interested almost exclusively in using stone for walls.

He went on with a magnificent discourse about the need for applying the fundamental principles of art to design.

Why do houses have attics? They are frightfully expensive storage space. Mr. Flagg's houses do not have any. Many of his living rooms run to the peak of the roof. If second floors are to be used, then bedrooms run to the peak—and they are as cool and comfortable as any bedrooms with vacant attics above them. A little "ridge dormer" rides on the roof tree and keeps the

room as cool as an attic air space, or cooler. It is windowed and screened and operated with a cord from within.

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It looks well on the outside and adds light within. It is an invention which enables you to see all the space under the roof; which enables one-story houses to be built with walls only five feet above the ground; two story houses with walls only twelve feet above the ground. It makes easy of achievement the low-lying house that every layman and architect dreams of and so rarely achieves. And remember that since the cost of modern frame buildings is nearly 45 cents a cubic foot, a full-sized attic in a medium-sized house of six or seven rooms will cost you somewhere near \$1,800.

The houses built by Mr. Flagg have no cellars!

A cellar usually costs about 20 per cent. of the total cost of a house. It was first used to "keep the house dry," and, scientifically speaking, kept it damp. It was also used as an ice box, and as such is used no more.

Unless thoroughly damp-proofed, all cellars are moist—who likes to live in a cellar?—and this wet air permeates the house, just the way escaped coal gas in the basement does. By having furnace and coal bins above ground a great deal of effort is saved in housework, and the mass of the house is increased to make it more impressive. The space between the floor and the ground, which Flagg covers with waterproofed concrete, is dead air space, and houses so built are as warm and dry as houses with big, damp-proof cellars. The cost of the layer of concrete on the ground is quite insignificant. These are facts, proved in use, scientifically correct. It is the conservatism of all of us, the prejudices, that make them hard to believe. As Mr. Flagg says: "When houses were first built in the Back Bay section of Boston without cellars, people were afraid to live in them, but experience proved them to be most sanitary."

The most spectacular and unbelievable innovation is the Flagg partition, another invention. The ordinary partition is built by putting up two-by-fours along the line. These are covered up with either metal or wood lath. Then three coats of plaster are applied, and on top of the last one is put the finish. The result is a partition which is a series of flues for fires. Once started in a wall, a fire quickly becomes disastrous, and it is in addition a fine nesting and hiding place for vermin. They are not sound-proof—why should they be since they have dead air space just like the sound box of a drum? Moreover, they take a lot of space. They are six inches

(Continued on page 432)

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**Apartment House (alts. and add.)**, 1404 Pine street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations and additions. Plans in progress.

**Village**, Broad and Cumberland streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, William Goldstein & Co., Liberty Building, Philadelphia. General alterations and addition to residences. Plans in progress.

**Apartment House (alts. and add.)**, 406-410 South Broad street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations and additions. Plans in progress.

**Buildings (alts. and add.) to Apartments**, Greene and Tulpehocken streets, Germantown, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, C. E. Lloyd, Jr., 515 North Eighth street, Philadelphia. Brick, 2 stories, front (2) 12x38 feet, rear (2) 33x24 feet, slate roof, composition and hardwood floors, kitchen equipment, cement paving, incinerators, electric and heating extensions. Owner will take sub-bids in a week.

**Building (add.)**, Northwest Corner Ninth and Buttonwood streets, Philadelphia. Architect, private plans. Owners, Benjamin Loan Co., Ninth and Buttonwood streets, Philadelphia. Brick and steel, 1 story add., 12x20 feet, slag roof, electric light, yellow pine floors, metal bulks, iron work. Owner taking sub-bids due as soon as possible.

**Garage and Repair Shop**, Seventh and Master streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, care of architect. Brick, 2 stories, demolition, hot water heat, electric light, hollow metal sash and skylights, fire doors, bond, flush bulks, metal ceilings, roof

ventilators, metal lath, cement floors, slag and concrete roof. Plans in progress. Architect ready for bids in two weeks.

**Stores (6) and Apartments (4) (alts. and add.)**, Southwest Corner Thirty-ninth and Walnut streets. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owners, Bogash & Klutch, 1001 Chestnut street, Philadelphia. Brick, demolition, hot water heat, electric light, tile and marble work, bond, flush bulks, metal lath, yellow pine and hardwood floors, slag roof. Plans in progress. Architect ready for bids in one week.

**Church**, Meadow street, Frankford, Philadelphia, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Second Baptist Church of Frankford, Philadelphia. Brick and stucco, 48x50 feet, hot water heat, electric light, slate roof, hardwood and pine floors. Plans completed. Architect will be ready for bids in a few days.

**Residences (26)**, Abbottsford Road and McKean avenue, Germantown, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, John F. McGinty, Sixty-seventh and Lebanon avenue, Philadelphia. Brick and stucco, 2 stories, 16x32 feet 6 inches, hot water heat, electric lighting, metal lath, tile work, slate roof, hardwood floors, cement work. Owner will take sub-bids in a few days.

**Stores, Apartments and Garages (12)**, Fifty-fourth street, between Arlington and Berks streets, Philadelphia. Architect, K. F. Otto, 1828 Arch street, Philadelphia. Owners, Kenin & Shapiro, Fifty-seventh and Florence avenue, Philadelphia. Brick and stucco, 2 stories, 17 feet 4 inches x 65 feet, garages, 17 feet 4 inches x 20 feet, hot water heat, electric light, tile and marble work, slag and Spanish tile roof, hardwood floors, Lupton sash, fire escapes, reflectors, metal bulks, architectural terra cotta. Owner ready for sub-bids in a few days.

**Apartment Hotel**, Delancey and Bouvier and Panama streets, Philadelphia. Architects, Lachman & Murphy, Drexel Hill, Pa. Owner, name withheld. Brick, reinforced concrete, cut stone, 10 stories and basement, 30x60 feet (plumbing, heating and electric separate), slag roof, rubber tile, metal lath,

tile and marble work, hollow metal skylights, elevators, composition stair treads, terra cotta, dumb waiters. Architect taking bids due July 9th.

**Store (alts.) (new front)**, Tenth and South streets, Philadelphia. Architect, Max Bernhardt, 721 Walnut street, Philadelphia. Owner, J. Friedman, on premises. Brick, metal bulks, plastering, painting and glazing, carpentry and mill work, metal lath. Architect taking bids due as soon as possible.

**Residence (alts.)**, 1815 Spruce street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Dr. James A. Kelly, on premises. New wood stairs, reinforced concrete floors, patching wood floors, carpentry and mill work, painting and plumbing. Architect taking bids due July 6th, 2 P. M.

**Service Station (alts. and add.)**, Brandywine street, East of Broad street. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Walz Equipment Co., 1343 Brandywine street, Philadelphia. Brick, steel, 2 stories, 59x15 feet, slag roof, cement and pine floors, metal lath, galvanized iron skylight, tin-clad doors, bond, floor hardener, waterproofing (plumbing, heating, electric reserved). Architect taking bids due July 5th.

**Repairing and Regilding and Reframing Oil Paintings**, Independence Hall, Philadelphia. Furnishing and erecting 72 east iron electric light brackets for corner stairway for corner stairway, City Hall. Architect, private plans. Owners, Department of Public Works, Bureau of City Property, 117 City Hall, Philadelphia. Owners taking bids due July 5th, 11 A. M. (standard time).

**Recreation Center**, Old York Road, Brown street, Fischer and Somerville avenues, Forty-second Ward, Philadelphia. Grading, treating soil, concrete street, footway paving, concrete walks, concrete steps, concrete street curb, sowing, sodding and miscellaneous planting. Durham Park, Forty-fourth Ward, constructing fence, replacing damaged concrete foot way pavement with granolithic finish, treating soil, supplying and spreading, top soil, seeding and planting. Recreation Center, Chelton, Wister street, Wyncote avenue, Twenty-second Ward, Philadelphia. Grading, soil treatment, constructing tile and concrete walks, steps and pavement around monument, concrete curbs, posts, concrete foundation for monument, concrete pavement with granolithic finish and sodding. Architect, private plans. Owners, Bureau City Property, Department of Public Works, 117 City Hall, Philadelphia. Owners taking bids due July 5th, 11 A. M. (standard time). Deposit \$5.00 on each set of plans.

**Shelter**, Home for Indigent, Holmesburg, Pa. City architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of Charities and Correction, Department of Public Welfare, Room 592, City Hall, Philadelphia. General construction, 2 new

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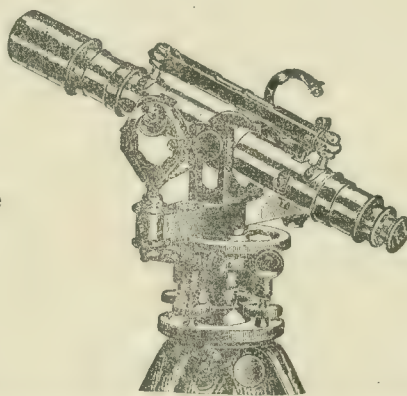
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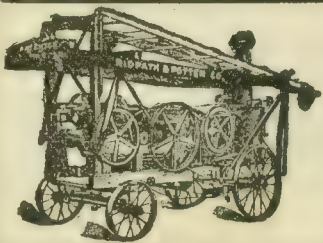
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shelters. Owners taking bids due July 5th, noon (standard time).

**Benches**, 5 retorts each (3) rebuilding. Gas House, Home for Indigents, Holmesburg, Pa. General rebuild. Architect, private plans. Owners, Department of Public Welfare, Bureau of Charities and Correction, Room 592, City Hall, Philadelphia. Owner taking bids due July 5th noon (standard time).

**Shelter Building (2)**, Holmesburg, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Home for the Indigent, Room 592, Department of Public Welfare, Bureau of Charities and Correction, Philadelphia. 100x25 feet, copper shingle and granolithic roof, cement floors, iron works. Owner taking bids due July 5th.

**Main Building (add.)**, Forty-first Ward, Torresdale, Philadelphia. City architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Corrections, 592 City Hall, Philadelphia. Brick, stucco, bluestone, limestone and steel, 1 story and basement, 29x33 feet, slag roof, pine and cement and composition floors, roof ventilators, bond marble work, metal lath (heating, plumbing and electric separate). Ready for revised bids in a week.

**Baptistery and Screen**, Twelfth and Oak Lane, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Oak Lane Baptist Church, Oak Lane, Philadelphia. Marble work, plastering, tile work, plate glass, concrete work, carpentry and mill work. Architect taking bids due as soon as possible.

**Bridge**, South street, over Schuylkill River. Architect, private plans. Owners, Department of Public Works, Bureau of Surveys, 216 City Hall. Rail on east approach and conduit connection to South Street Bridge. Owner taking bids due July 10th, 11 A. M. (standard time). Inquire Room 746.

**Swimming Pool**, Hunting Park avenue and Blaine street, Philadelphia. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. General construction, plumbing, electric lighting. Owners taking bids due July 10th, noon (standard time).

**Alteration and Additions**, 5811 Germantown avenue, Philadelphia. Architects, Savery & Sheetz, Stephen Girard Building, Philadelphia. Owner, Carl Helmetag, on premises. Brick and stone, 1 story, 59x35 feet (plumbing, heating and electric reserved), slag roof, maple floors, tile work, rolled steel skylights. Architects taking bids due July 7th.

**New Cathedral Cemetery**, Front and Luzerne streets, Philadelphia. Engineer, Jacob Orrie Clarke, 133 South Twelfth street, Phil-

adelphia. Owners, New Cathedral Cemetery, on premises. Concrete retaining walls, iron fencing, cut granite guard stones, concrete walks, tile drains, grading, sodding, seeding, terra cotta drain pipes, painting. Engineer taking bids due July 6th.

**Miscellaneous Work**, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of City Property, 117 City Hall. Laying or repairing Newchattel or asphalt pavement, concrete pavement, with brushed pebble finish, granolithic finished pavement, copings, curbs, etc. Owners taking bids July 5th, 11 A. M. (standard time).

**Store and Office**, Sixteenth and St. James streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Sterling Realty Co., care of architect. Brick, reinforced concrete, limestone, granite, steel, 10 stories and basement, 40x65 feet, steam heat, electric light, slate, marble and terrazzo work, hollow metal sash, rolled steel skylights, iron clad, kalamein and hollow metal doors, bond, iron stairs, ornamental iron work, slag roof, concrete and yellow pine floors, elevators, safety treads, damp-proofing, terra cotta, mail chutes. Architect taking bids due July 6th at noon.

**Stores (3) and Apartments (alts. and add.)**, Southwest Corner Seventeenth and Columbia avenue, Philadelphia. Architect, Salvatore Gritti, 817 North Sixteenth street, Philadelphia. Owner, James McAlonen, 1701 Columbia avenue, Philadelphia. Brick, 3 stories, 18x80 feet, stone foundations and underpinning, slag roof, hardwood, pine and composition floors, hot water heat, electric light, metal lath, tile, bond, metal flush bulks, metal ceilings steel and cement work, painting and glazing, carpentry and mill work, plumbing. Architect taking bids due July 5th.

**Apartment**, North side Osage avenue, East of Forty-sixth street, Philadelphia, \$60,000. Architect, private plans. Owners, Bobb, Powell & Golman, 6234 Cedar avenue, Philadelphia. Brick, 3 stories, 37x85 feet, slag roof, electric lighting, hardwood and pine floors, tile work. Owners will build.

**Residences (40)**, 3000 to 3018 and 3001 to 3019 South Fifteenth street, and 3000-18 and 3001-19 South Sydenham street, \$160,800. Owner, Charles M. Weild, 2737 South Sixteenth street, Philadelphia. Brick, (4) 2 stories, 16x39 feet and (36) 2 stories, 15x30 feet, 11x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (2)**, South side Kerper street, East of Bingham, \$5,000 each. Architect, private plans. Owner, Frank Adair, 6711 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

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**Shop**, 5740-42 Westminster avenue, Philadelphia, \$6,000. Architect, J. Fallon, 5851 Walnut street, Philadelphia. Owner, William A. Matsinger, 611 North Fifty-second street, Philadelphia. Brick, 1 story, 50x80 feet, slag roof, cement floors. Owner will build.

**Residences (2)**, 1231-33 Cottman street, Philadelphia, \$5,000 each. Architect, private plans. Owner, Harry Glaser, 1214 North Leithgow street, Philadelphia. Frame and stucco, 2 stories, 15½x38 feet, hardwood and pine floors, electric light, hot water heat, tile work. Owner will build.

**Residences (20)**, West side Kip street, North of Tioga, \$4,500 each. Architect, private plans. Owner, M. J. Walsh, 4302 North Third street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot air heat, electric light. Owner will build.

**Residence**, Northwest Corner Eighty-third and Chelwynde avenue, Philadelphia, \$4,200. Architect, private plans. Owner, Lademar Zapala, Eighty-third and Chelwynde avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Office (alts.)**, 13 South Eighteenth street, Philadelphia, \$6,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 820 Dauphin street, Philadelphia. Carpentry, mill work, plastering, general alterations. Owner will build.

**Residences (2)**, South side Princeton avenue, West of Jackson, \$6,000 each. Architect, private plans. Owner, C. Day, 3503 Decatur street, Philadelphia. Brick, 2 stories, 16x42½ feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (24)**, Montague and Tyson streets, Philadelphia, \$115,200. Architect, private plans. Owner, E. S. Gereke, Tyson and Walker streets, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Apartment and Shop (add.)**, 3946 Baring street, Philadelphia, \$3,000. Architect, private plans. Owner, Warren E. Biscoe, 4222 Brown street, Philadelphia. Brick, second story add., 48x16 feet and 32x10 feet. Owner will build.

**Residence**, West side Dungan Road, North of Bleigh street, \$5,000. Architect, private plans. Owner, William Hermann, Bleigh and Montour streets, Philadelphia. Frame, 2 stories, 25x41 feet, hot water heating, electric lighting, oak and pine floors. Owner will build.

**Residences (12)**, North side Washington Lane, Magnolia street to Homer, and East of Homer, Philadelphia, \$8,500 each. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Stone, 2 stories, 23x35 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garage**, 3625 Kensington avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Harry L. Murray, on premises. Brick, 1 story, 18x55 feet and 30x9 feet, slag roof, cement floors. Owner will build.

**Garage**, 506 East Hermit Lane, Philadelphia, \$2,500. Architect, private plans. Owner, John Danbert, 486 West Walnut Lane, Philadelphia. Brick, 1 story, 86x14 feet, slag roof, cement floors, electric lighting. Owner will build.

**Apartment (alts.)**, 273 Rochelle avenue, Philadelphia, \$2,000. Architect, private plans. Owner, J. F. Wiley, on premises. General alterations. Owner will build.

**Building (alts.)**, Northeast Corner Twenty-eighth and Columbia avenue, \$2,000. Architect, private plans. Owner, Max Fornopol, 1510 West Susquehanna avenue, Philadelphia. General alterations. Owner will build.

**Subway Construction**, Contract No. 207, Philadelphia. Architect, private plans. Owners, Department of City Transit, W. F. Twinning, Director, 1211 Chestnut street, Philadelphia. 1,529 lineal feet of two-track subway in Arch street, between Eighth and Thirteenth streets. Low bidder: Keystone State Const. Co., 210 South Thirteenth street, Philadelphia, \$1,265,000.

**Pier No. 84**, Moyamensing Group, Delaware River, Philadelphia. Architect, private plans. Owners, Department of Wharves and Docks, Room 211, No. 4 South Wharves, foot of Chestnut street, Philadelphia. Completion with appurtenant work for Porter Street Pier No. 84. Low bidder: Fred Snare Co., 1524 Chestnut street.

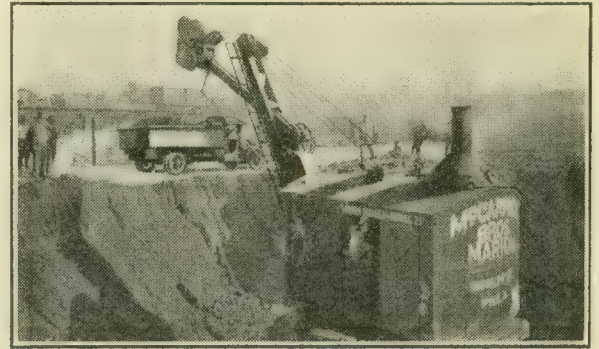
**Church**, Broad and Fitzwater streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, East Calvary Methodist Episcopal Church, care of architect. Architect taking bids due July 12th, noon.

**Building**, Fifteenth and Fairmount street, Philadelphia. Architect, Richard C. Loos, 2218 Chestnut street, Philadelphia. Owner, Edward M. Harris, Esq., 2214 Chestnut street, Philadelphia. Architect taking bids due July 10th.

**Building**, 1404 Pine street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, William Goldstein & Co., Liberty Building, Philadelphia. Architect taking bids due July 6th.

**Building**, 1304 to 1312 Spring Garden street, Philadelphia. Architect, private plans. Owners, H. A. Drier, Inc., 714 Chestnut street, Philadelphia. Reinforced concrete and steel, 8 stories and basement, 60x100 feet. Owner taking bids.

**Building (alts.)**, 1504 Diamond street, Philadelphia. Architect, Savery & Scheetz, Ste-



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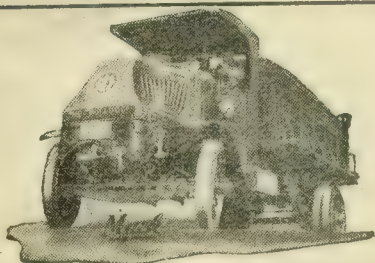
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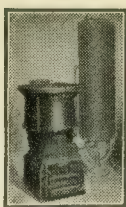
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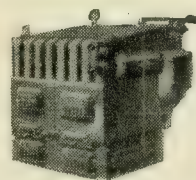
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phen Girard Building, Philadelphia. Owner, Dr. E. J. Sallada, on premises. Architect taking bids due July 7th.

**Building (alts.)**, Southeast Corner Broad and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Heyman & Brother, agents, Hotel Walton, Philadelphia. Brick and hollow tile, 5 stories, structural iron, metal lath, plastering, carpentry and mill work, marble and tile work, cut stone, composition floors, painting and glazing, electric work, plumbing, steam heating. Architect taking bids due July 11th.

**Warehouse**, 233-35 Callowhill street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Beyer & Co., on premises. Reinforced concrete, brick, cut stone, 4 stories and basement, 60x31 feet, slag roof, cement floors, hollow tile, rolled steel sash, fire, kalamein and rolled steel doors, bond, floor hardener, iron work, terra cotta. Architect taking bids due July 10th.

**Swimming Pool and Bath House**, Hunting Park and Blaine street, Philadelphia. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Philadelphia. Brick, limestone, granite and steel, 1 story, 84x125 feet, 106x45 feet, steel doors, rolled steel skylights, bond, iron work, waterproofing, concrete floors, Philip Carey or Johns Mansville tile roof. Owners taking bids due July 10th.

**Store and Apartment (alts. and add.)**, 4521-23-25-27 Walnut street, Philadelphia. Architects, Neubauer & Supovitz, 929 Chestnut street, Philadelphia. Owners, E. R. French & Co., 117 South Forty-sixth street, Philadelphia. Brick, fourth floor add., 86x70 feet, controlled heating, electric light, metal lath, tile and marble work, slag roof, oak floors, plumbing, painting and glazing, bond, ornamental iron work, terra cotta. Architects taking bids due July 6th.

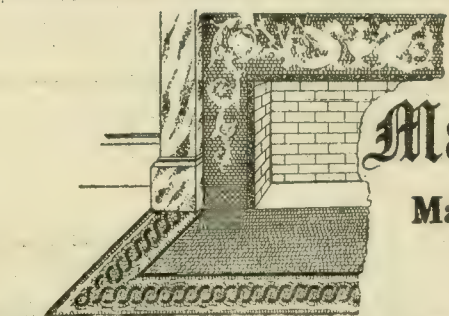
**Residence**, 1917 Panama street, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Ferrie Brinton, care of architect. Limestone, bluestone, brick, steel and granite, 3 stories, 50x16 feet (heating and electric reserved), tin roof, oak and yellow pine floors, plumbing, iron work, bond, rolled steel sash and skylights, metal lath. Architect taking bids due July 6th.

**Supplies**, Philadelphia, Pa. Owners, City of Philadelphia, T. B. Armstrong, 213 City Hall, Philadelphia. Sand, stone, cement, lime dust, fuel oil, fire hydrant, chemical hose. Owners taking bids due July 12th, 11 A. M. (standard time), Room 329, City Hall.

**Residences and Garages (8)**, Seventeenth and Rusecomb streets, \$49,000. Architect, private plans. Owners, Abrams & Tipper, 717 Snyder avenue, Philadelphia. Brick, 2 stories, 28x19 feet, 13x15 feet, 15x29 feet, 12x10 feet and 16x29 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence and Store (alts. and add.)**, 1522 Bainbridge street, \$3,000. Architect, private plans. Owner, William B. Southern, Twelfth and Spruce streets, Philadelphia. Brick, 2 stories, 16x40 feet, general alterations. Owner will build.

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# Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residence and Store (alts.),** 4528 Lancaster avenue, \$2,000. Architect, private plans. Owner, Miss Sarah F. Best, York, Pa. General alterations. Contract awarded to George Milne, 201 North Thirty-third street, Philadelphia.

**Residence,** West side Veree Road, South of Maple avenue, \$6,400. Architect, private plans. Owner, Charles C. Seasongood, 2816 North Bonsall street, Philadelphia. Brick and frame, 2 stories, 26x28 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Contract awarded to Jacob Hansen, Afton street, Fox Chase, Philadelphia.

**Residence and Store (add. and alts.),** 1480 North Fifty-second street, \$5,000. Architects, Stetler & Deysher, 1484 North Fifty-second street, Philadelphia. Owner, H. S. Miller, on premises. Brick, 2 stories, 17x21 feet, 1 story, 20x20 feet, 39x25½ feet, and 1 story, 17x20 feet, general alterations. Contract awarded to Samuel Rogers, 5312 Thompson street, Philadelphia.

**Residences (2) (alts.),** 2603-05-07 South Eighth street, \$3,600 total. Architect, private plans. Owner, Hyman Pfeifer, on premises. General alterations. Contract awarded to Samuel Singer, 2221 South Sixth street, Philadelphia.

**Chimney Stack,** Northwest Corner Pensdale and Mitchell streets, \$3,100. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Kaufman Plush Co., on premises. Brick, 100 feet high. Contract awarded to M. W. Kellogg Co., 90 West street, New York.

**Building (alts.),** Southeast Corner Twentieth and Chestnut streets, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Richard J. Seltzer, 1423 Locust street, Philadelphia. Brick, concrete, cement and steel, repairs to roof and heating, iron work, painting and glazing, carpentry and mill work, plastering, plumbing. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

**Residence (add.),** 2011 Bainbridge street, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia.

**Residence,** Owner, Mrs. C. Johnson, 2011 Bainbridge street, Philadelphia. Brick, 3 stories, rear add., 13x14 feet, slag roof, pine floors, heating and lighting extensions. Contract awarded to Reliable Const. Co., care of architect.

**Garage,** Wissahickon and Horter streets, Philadelphia, \$8,000. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. Wasserman, on premises. Stone, 1½ stories, 26x45 feet, slate roof, cement floors (electric, plumbing and heating reserved), iron work. Contract awarded S. Harting & Son, 22 East Johnson street, Philadelphia.

**Store and Office Building,** near Broad and Loudon streets, Philadelphia, \$12,000. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owners, Fred E. and Maurice Felt, 215 South Broad street, Philadelphia. Brick, limestone, 2 stories, 20x80 feet, hot water heat, electric light, slag roof, pine floors, tile and marble work, metal ceilings, flush bulks. Contract awarded to W. D. Gairnis, 4420 Market street, Philadelphia.

**Building (int. alts. and rear add.),** 103 West Roosevelt Boulevard, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Harry J. Avrach, 103 West Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 8x12 feet, demolition, hot water heat, electric work, tile work, slag and slate roof, yellow pine and hardwood floors, bond. Contract awarded Charles D. Dranoff, 111 North Sixth street, Philadelphia.

**Residence,** Mower street, between Pelham Road and Carpenter street, Philadelphia. Architect, John William Keyes, 6226 McCallum street, Philadelphia. Owner, Edward Willard, Lincoln Building, Philadelphia. Brick, 2½ stories, 20x40 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Joseph S. Creamer, 1739 North Twenty-sixth street, Philadelphia.

**Residence,** Chestnut Hill, Pa., \$28,000. Architects, Rankin Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, George H. Buzby, care of architect. Stone, 2½ stories, 35x31 feet (plumbing, heating and electric reserved), slate roof, oak and yellow pine floors, ornamental iron work. Contract

awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Private Garages (92) and Service Station,** Florence avenue, between Fifty-third and Fifty-fourth streets, Philadelphia. Architect, E. A. Wilson, 1208 Chestnut street. Owner, T. W. Maloney, care of builder. Brick, 1 story, 10x18 feet, service station, 26x25 feet, steam heat, electric light, slag roof, cement floors. Contract awarded to D. W. Glover, 5325 Florence avenue, Philadelphia.

**Store and Dwelling,** Sixtieth and Springfield avenue, Philadelphia. Architect, E. A. Wilson, 1208 Chestnut street, Philadelphia. Owner, Glen O. Martin, Forty-first and Chester avenue, Philadelphia. Brick, 2 stories, 36x40 feet, steam heat, electric light, metal lath, tile work, metal ceilings, hardwood and composition floors, slag roof. Contract awarded to D. W. Glover, 5325 Florence avenue, Philadelphia.

**Buildings (alts.),** Nos. 3-4-5-6-8-9, Girard College, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, Corinthian avenue and Girard avenue, Philadelphia. Cement floors, iron work, cut stone, steel sash and waterproofing. Contract awarded to J. N. Gill Const. Co., Otis Building, Philadelphia.

**Store (alt.),** 416 Market street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, H. M. Sacks, on premises. Hollow metal partitions, tile and marble work, painting and glazing, metal ceilings, wood flush bulks, general alterations to store. Contract awarded Henry Const. Co., 2954 Westmont street.

**Residences (4),** South side Magee street, East of "J" street, \$17,400. Architect, private plans. Owner, W. Failor, Southwest Corner Fifth and Somerville streets, Philadelphia. Brick, 2 stories, (2) 15x37 feet, (2) 15x25 feet, 12x12 feet, hot water heat, electric light, slag roof. Contract awarded to P. W. Failor, Southwest Corner Fifth and Somerville streets.

**Storage Building,** West side Thompson street, North of Cumberland, \$8,000. Architect, private plans. Owners, John T. Lewis & Brothers Co., Lafayette Building, Philadelphia. Steel, 1 story, 86x31 feet, 126x22 feet, corrugated iron siding, cement floors. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**Residence and Store and Residences (5),** Eighty-fourth and Lyons avenue, \$27,000. Architect, private plans. Owner, Samuel Cohen, 5856 Market street, Philadelphia. Brick, 2 stories, 16x45 feet, (5) 15x26 feet, 11x10 feet, slag roof, hot air heat, electric light.

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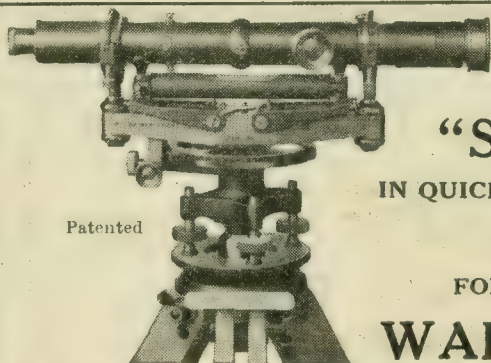
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Contract awarded to Max Getz, 5856 Market street, Philadelphia.

**Residence**, East side Bingham street, South of Cottman, \$5,400. Architect, private plans. Owner, Augusta Haag, 7415 Rising Sun avenue, Philadelphia. Frame, 2 stories, 26x37 feet, pipeless heating, electric lighting. Contract awarded to Harvey L. Miller, 7319 Palmetto street.

**Residence**, North side Shelmire street, East of Lawndale avenue, \$5,395. Architect, private plans. Owner, Richard Creighton, 900 East Cambria street, Philadelphia. Frame, 2 stories, 28x38 feet, pipeless heat, electric light. Contract awarded to Harvey L. Miller, 7319 Palmetto street.

**Store (alts.)**, 1226 Market street, Philadelphia, \$10,000. Architects, C. L. Goodwin Co., 13 Cypress street, Worcester, Mass. Owner, John Wanamaker, Philadelphia. Extensive alterations. Contract awarded to C. L. Goodwin Co., Worcester, Mass.

**Residences (2)**, East side Fairhill, South of Cheltenham avenue, \$10,000 each. Architect, private plans. Owner, J. Read, Fairhill street and Green Lane, Philadelphia. Brick and stone, 2 stories, 20x40 feet, hardwood floors, hot water heat, electric light, tile work. Contract awarded to J. D. Fotheringham, 1000 Arrott street.

**Store (alts. and add.)**, Southwest Corner Sixth and Allegheny avenue, \$6,500. Architect, private plans. Owners, William A. and C. Hanimeke, 630 West Allegheny avenue, Philadelphia. Brick and steel, 1 story, 9x16 feet, slag roof, yellow pine floors. Contract awarded to John Schnabel, Inc., 707 Denckla Building.

**Residences (2)**, North side Tyson, West of Gillespie, \$6,000 each. Architect, private plans. Owner, Robert Thompson, 7026 Ditman street, Philadelphia. Brick, 2 stories,

16x42 feet, slag roof, oak and pine floors, hot water heating, electric lighting, tile work. Contract awarded to C. Day, 3503 Decatur street, Philadelphia.

**Rooming House (alts.)**, Southwest Cor. Fifteenth and Master streets, \$7,000. Architect, private plans. Owner, Mrs. Alice Boyer, 1506 West Girard avenue, Philadelphia. General alterations. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

**Tenement (alts. and add.)**, 3235 North Seventeenth street, Philadelphia, \$6,000. Architect, private plans. Owner, Reuben Rosenthal, 1524 West York street, Philadelphia. Brick, 1 story add., 16x18 feet, general alterations, also **Garage**, 1 story, \$800. Contract awarded to Simon Reece, 2424 North Park avenue, Philadelphia.

**Theatre (alts.) to Garage**, 224-26 East Girard avenue, \$3,000. Architect, private plans. Owner, Joseph Bass, 992 North Sixth street, Philadelphia. General alterations from theatre to garage. Contract awarded to B. Broker, 425 South Fifty-seventh street, Philadelphia.

**Garage**, East side Sixty-sixth street, South of Haverford avenue, \$2,500. Owner, James Simpson, on premises. Brick, 1 story, 66x16 feet, slag roof, cement floors, electric light. Contract awarded to John H. Patterson, 6209 Girard avenue.

**Store and Office (alts.)**, 704 Sansom street, Philadelphia, \$12,500. Owner, R. Guffman, 412 South Fifth street, Philadelphia. Carpentry, mill work, painting, glazing, plastering, general alterations. Contract awarded to Shechtman Brothers, 1734 North Seventh street, Philadelphia.

**Residence and Store (alts. and add.)**, 1438 Point Breeze avenue, \$3,000. Architect, private plans. Owner, A. Block, 1249 Point Breeze avenue, Philadelphia. Brick, 1 story add., 12x14 feet, general alterations. Contract awarded to F. P. Dillon, 1223 South Twentieth street, Philadelphia.

**Residence (add.)**, 1937 East Sergeant street, Philadelphia, \$2,950. Architect, private plans. Owner, Adam A. Mayer, on premises. Brick, 2 stories add., 10x34 feet, slag roof. Contract awarded to William Freiling, 2553 North Fifth street, Philadelphia.

**Residences (2)**, 2950-61 North Twenty-second street, Philadelphia, \$4,000. Architect, private plans. Owner, Samuel Kogen, 2959 North Twenty-second street, Philadelphia. General alterations. Contract awarded to P. H. Jacob, 908 North Eighth street, Philadelphia.

**Stable and Storage Building (add.)**, West side Seventeenth street, South of Pattison street, \$2,500. Architect, private plans. Owner, Samuel Simon, Twenty-third and McKean streets, Philadelphia. Brick, 2 stories, 21½x16

feet, and 1 story, 26x15 feet. Contract awarded to James A. Fitzgerald, 1623 Snyder avenue.

**Residence (alts. and add.)**, 5004 North Fifth street, Philadelphia, \$2,500. Architect, private plans. Owner, J. Miller, on premises. Brick, 1 story add., 15x8 feet, general alterations. Contract awarded to Samuel Richmond, 4843 North Hutchinson street.

**Residence and Store (add.)**, 1116 North Fortieth street, Philadelphia, \$2,000. Architect, private plans. Owner, Fannie Sokolow, on premises. Brick, 1 story, 17x22 feet, slag roof, yellow pine floors. Contract awarded to David Wishnevsky, 1116 North Fortieth street.

**Residence and Store (alts.)**, Northwest Corner Seventy-ninth and Brewster avenue, \$3,200. Architect, private plans. Owner, R. Lipschutz, on premises. Brick, 1 story, 23x32 feet, slag roof, general alterations. Contract awarded to I. Kaplan, 7904 North Fourth street, Philadelphia.

**Residence (add.)**, 5402 Walnut street, Philadelphia, \$2,000. Architect, private plans. Owner, J. Hoffman, on premises. Brick, 2 stories, 16x9 feet and 16x9 feet. Contract awarded to Fred Houser, 6062 Callowhill street.

**Store and Warehouse (alts. and add.)**, 2534 Kensington avenue, \$4,000. Architect, private plans. Owner, Samuel Berger, 2543 Kensington avenue, Philadelphia. Brick, 3 stories, 15x52 feet, 13x21 feet, general alterations. Contract awarded to H. Alisker, 814 North Sixth street, Philadelphia.

**Garage (add.)**, West side L street, North of Sedgley avenue, \$4,000. Architect, private plans. Owner, Ernest Erbing, on premises. Brick, 1 story add., 35x85 feet, slag roof, cement floors. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Garage and Shop (add.)**, 2147-53 North Seventh street, Philadelphia, \$3,500. Architect, private plans. Owner, Harry Hagan, 6521 North Twentieth street, Philadelphia. Brick, 1 story, 44x25 feet, slag roof, cement floors. Contract awarded to Daniel Carr, 3331 Frankford avenue, Philadelphia.

**Residence (add.)**, 2118 North Nineteenth street, Philadelphia, \$3,500. Architect, private plans. Owner, Dr. E. T. Miller, on premises. Brick, 3 stories, 9x6 feet, slag roof, electric work. Contract awarded to Charles H. Booker, 2257 North Uber street, Philadelphia.

**Storage Building (add.)**, 104-06 Callowhill street, Philadelphia, \$3,900. Architect, private plans. Owner, I. Klein, 113 Callowhill street, Philadelphia. Brick, 1 story, 16x28 feet, and 1 story, 16x20 feet, slag roof, cement floors, electric lighting. Contract

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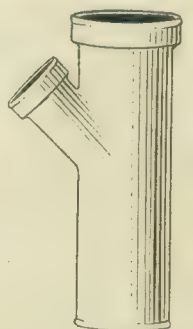
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**Residence (alts. and add.),** 5733 Race street, Philadelphia, \$4,200. Architect, private plans. Owner, James G. B. Astwood, 5733 Race street, Philadelphia. Brick, 2 stories, 15x18 feet, and 1 story, 15x7 feet, slag roof, alterations. Contract awarded to Warren E. Biscoe, 4222 Brown street, Philadelphia.

**Residence and Bakery (add.),** 4614 Rising Sun avenue, \$3,100. Architect, private plans. Owner, Charles Haas, on premises. Brick, 1 story add., 24x16 feet, and 2 stories add., 21x12 feet. Contract awarded to John T. Morrow & Son, 508 Lindley avenue.

**Residence and Store (add.),** Northeast Corner Chelton and Pulaski avenues, \$3,000. Architect, private plans. Owner, Arthur J. Wisser, on premises. Brick, 3 stories add., 10x28 feet, electric work, slag roof. Contract awarded to Charles S. Johnston & Co., 5600 Germantown avenue.

**Shop and Storage Building,** 711 South Ninth street, Philadelphia, \$2,400. Architect, private plans. Owner, Harry T. Glend, on premises. Brick, 2 stories, 18x21 feet, slag roof, pine floors. Contract awarded to Charles Jones, 966 North Sixtieth street, Philadelphia.

**Residence and Store (alts.),** 3678-80 Frankford avenue, \$2,800. Architect, private plans. Owner, A. Goldberg, 502 McKean street, Philadelphia. General alterations. Contract awarded to Negin & Klyman, 2440 South Reese street, Philadelphia.

**Residence (alts.),** 2038 East Elkhart street, Philadelphia, \$2,000. Architect, private plans. Owner, E. Stokley, on premises. General alterations. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

**Bridge over Schuylkill River at Schuylkill avenue, North Reading, Pa.** Architect, private plans. Owners, City of Reading, Pa. Reinforced concrete bridge. Contract awarded to Seeds & Derham, 6314 Wissahickon avenue, Philadelphia, \$421,711.

## Pennsylvania Construction News

**Residence,** Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2½ stories, 28x45 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Store and Apartment (alts. and add.),** Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, 2 stories, 30x40 feet, slate roof, pine floors, steam heat, electric light. Plans in progress.

**Residence,** Wilkes-Barre, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre,

Pa. Owner, H. Murphy, Kingston, Pa. Brick, 3 stories and basement, 30x35 feet, 8x14 feet, hardwood floors, vapor heat, electric light, metal lath, tile work. Plans in progress.

**Parochial School (alts. and add.),** Scranton, Pa. Architect, G. T. Price, Miller Building, Scranton, Pa. Owner, care of architect. Frame, 2 stories, asbestos shingle roof, hollow tile, metal lath, roof ventilators, metal ceilings, ornamental iron work. Plans in progress.

**Hotel,** Carbondale, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, care of architect. Brick, stucco, 3 stories, 30x46 feet, slag roof, pine floors, electric light. Plans in progress.

**Hotel,** Old Forge, Pa. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owner, care of architect. Hollow tile and stucco, 3 stories, 35x97 feet, slag roof, pine floors, hollow tile, electric work. Plans in progress.

**Residence,** College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Mrs. A. L. Haeker, Allentown, Pa. Hollow tile and stucco, 2 stories, 25x35 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

**Residence,** College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, J. B. McClure, 226 South Thirteenth street, Allentown, Pa. Brick and stucco, 2 stories, 26x35 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Duplex House,** Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, S. M. Snook, 1014 Green Ridge, Scranton, Pa. Stucco, 2 stories, 34x60 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Owner will take bids next week.

**High School, Gymnasium and Auditorium,** Bradford, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg. Owners, School Board of Bradford, E. W. Charlton, Chairman Building Committee, Bradford, Pa. Brick, steel, semi-fireproof, 2 stories and basement, 30 class rooms. Architects selected.

**Store and Apartment,** Lewistown, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, H. W. Shoemaker, Lewistown, Pa. Brick, 3 stories. Preliminary plans in progress.

**Church,** McConnellsburg, Pa. Architects, Lowrie & Green, Commonwealth Building,

Harrisburg, Pa. Owners, Methodist Episcopal Church, C. B. Stephens, McConnellsburg, Pa. Brick, 1 story and basement, 40x50 feet, slate roof, hardwood floors, vapor heat, electric light. Plans in progress.

**Residences (2),** Bala, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, Mrs. G. W. Kendrick, Bala, Pa. Stone, 2½ stories, 24x40 feet, hot water heat, electric light, tile work, slate roof, hardwood and pine floors. Architects ready for bids in one week.

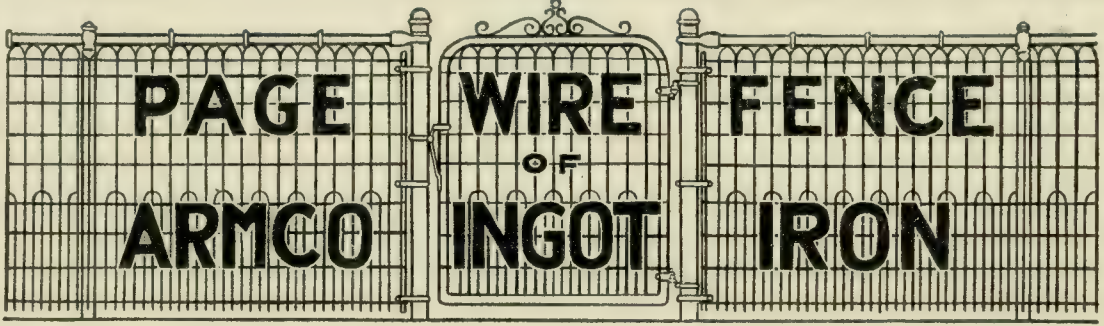
**High School Shop (alts.) to Class Rooms and New Boiler Plant,** Harrisburg, Pa., \$100,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. D. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Brick, 1 story, 35x60 feet, gypsum and concrete slab roof, concrete floors (steam heat, electric light reserved), rolled steel skylights, kalamein doors, roof ventilators, general alterations. Owner will be ready for bids in one week.

**School (alts. and add.),** Neffsville, Pa. Architect, H. M. Shaub, Imperial Building, Lancaster, Pa. Owners, Neffsville School Board, care of architect. Brick, cinder block, 1 story, 100x150 feet, composition roof, hardwood floors (heating, plumbing and electric work reserved), roof ventilators, rolled steel skylights, ornamental iron work. Architect ready for bids in one week.

**Margrace Apartments,** City Line avenue, Overbrook, Pa., \$350,000. Engineer, Herbert W. Goddard, 1524 Chestnut street, Philadelphia. Owner, T. J. Whelan, Southeast Corner Forty-seventh and Chestnut streets, Philadelphia. Brick, steel, stone, 4 stories, 60x195 feet (heating, plumbing and electric reserved), slag roof, hardwood and pine floors, tile and marble work, elevators, rolled steel skylights, fire and kalamein doors, bond, iron stairs, iron work, metal window guards, metal ceilings, terra cotta. Engineer taking bids due as soon as possible. Work will be done by separate contract.

**Residence,** Brookline, Pa. Architect, Walter K. Durham, 1345 Arch street, Philadelphia. Owners, Haverford Real Estate Co., 923 Sansom street, Philadelphia. Hollow tile and stucco, 2½ stories, 26x35 feet, hot water heat, electric light, tile work, hardwood floors, tile roof. Owner will be ready for bids in a few days.

**Residence and Garage,** Churchville, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, Alex. Auerbach, care of



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architect. Hollow tile and stucco, 2½ stories, 60x35 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Architect will be ready for bids in a few days.

**School (alts.),** Lewistown, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Lewistown School Board, A. A. Aurand, secretary, Lewistown, Pa. Interior alterations, central heating, plumbing, iron stairs. Architects will be ready for bids in ten days.

**Residence and Store,** Lewistown, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, A. L. Reich, Lewistown, Pa. Stucco, tile, 2½ stories, 35x36 feet, slate roof, hardwood floors, steam heat, electric light. Owner ready for bids.

**Residence,** 2215 Chestnut street, Harrisburg, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, H. B. Miller, Harrisburg, Pa. Brick, 2 stories, 30x45 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Owner will take bids.

**Bank (alts. and add.),** Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Lancaster County Bank, care of architect. Brick, reinforced concrete, 1 story, 30x70 feet, composition roof, linoleum floors, electric light, metal window guards, rolled steel skylights. Plans in progress. Architect will be ready for bids in one week.

**Glenside Weldon School,** Eastbrook Road, North of Parksdales avenue. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park. Brick, cut stone, steel, granite and stone, 2 stories and basement, 136x160 feet (plumbing, heating and electric separate bids), slate and slag roof, composition, pine and concrete floors, metal lath, hollow tile, hollow metal sash and skylights, bond, iron work. Owners taking revised bids due July 9th, 7 P. M. (standard time).

**Residence,** Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Lee-Knelly, care of architect. Brick, cut stone, concrete, 36x25 feet, asphalt shingle roof, pine floors, steam heat, electric light. Architect taking bids due as soon as possible.

**Residence,** Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, J. F. Schmidt, 406 Park avenue, Wilkes-Barre, Pa. Frame, 2½ stories, 40x30 feet, asphalt shingle roof, hardwood floors, electric light. Architect taking bids due as soon as possible.

**Cabin Building (alt. and add.),** Fayette and Elm streets, Conshohocken, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, David Gabin, on premises. Brick, cement work, plastering, mill work, structural steel, ornamental and light iron work, painting and glazing, electric, plumbing, hardwood floors, asphalt slate roof, sheet metal, hot water heat. Architect taking bids due July 5th.

**Manufacturing Building,** Ambler, Pa. Architect, Harry F. Resbel, care of owner. Owners, American Chemical Paint Co., J. H. Gravell, 1126 South Eleventh street. Brick, reinforced concrete, slate, 82x98 feet, 2 stories (heating, electric, plumbing, painting, mastie floors, sprinklers, elevators reserved), slag roof, cement and plank floors, rolled steel

sash, bond, iron work. Owner taking bids due July 6th.

**Paving,** Borough of Norwood, Delaware County, Pa. Architect, Chester F. Baker, Borough Engineer, 606 Crozer Building, Chester. Owners, Borough of Norwood, A. M. McClellan, Clerk of Council, Norwood, Pa. Bituminous macadam, approximately 14,000 square yards. Owner taking bids due July 9th, 8 P. M. (daylight saving). Certified check \$100.00 must accompany each bid.

**Store and Residence,** Northeast Corner Magnolia and Woodlawn avenues, Aldan, Pa. Architect, private plans. Owner, H. C. Klusmeyer, Eighth and Federal streets, Philadelphia. Brick, 4 stories. Owner taking bids due July 5th.

**Sanitary Sewer,** South avenue, Glenolden, from Outfall Sewer, North of Muckinappapus Creek to Baltimore and Ohio Railroad Company. Architect, A. F. Damon, Jr., Post Office Building, Upper Darby, Pa. Owners, Borough of Glenolden, F. H. Bonsall, secretary of Council, Glenolden, Pa. 8-inch sanitary sewer. Certified check of \$100. Owners taking bids due July 11th, 8 P. M. (daylight saving).

**School (add.),** Nicholson street, Wilkes-Barre, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Township School Board, J. Finn, secretary, Wilkes-Barre, Pa. Frame, 1 story, slag roof, pine floors (heating, plumbing and electric work reserved). Low bidder, E. J. Donahue, Wilkes-Barre, Pa.

## Pennsylvania Contracts Awarded

**Warehouse (alts. and add.),** Wilkes-Barre, Pa. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, J. T. Bell Co., Wilkes-Barre, Pa. Brick, steel, 1 story, 40x100 feet, composition roof, plank and steel truss floors (heating extension, electric light, roof ventilators, elevator doors, freight elevators, fire escapes. Contract awarded to O. J. Behrens, 179 Blackman street, Wilkes-Barre.

**Oil Stores,** Wilkes-Barre, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Jones Oil Co., River Road, Wilkes-Barre, Pa. Frame and stucco, 1 story, 18x18 feet, composition roof, electric light, metal lath. Contract awarded to Walborn & Barney, 175 Race street, Wilkes-Barre.

**State Police Barracks (add.),** Wyomissing, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, State of Pennsylvania, care of Captain Clark, Wyomissing, Pa. Frame, 3 stories, 35x57 feet, 48x35 feet, slag roof, pine floors, steam heat, electric light, metal lath, rolled steel skylights. Contract awarded to Turon & Schwart, Pittston, Pa.

**Residence,** Butler street, Kingston, Pa., \$12,000. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, John Miles, Kingston, Pa. Frame, 2½ stories, 29x31 feet, 8x16 feet and 8x17 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Julian Sosnonski, Kingston, Pa.

**Residence,** Kingston, Pa., \$12,000. Architect, private plans. Owner, Dr. Strauss,

Kingston, Pa. Frame, 2½ stories, 30x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Julian Sosnonski, Kingston, Pa.

**Rectory,** Olyphant, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. P. J. Murphy, Olyphant, Pa. Brick, 1½ stories, 42x50 feet, tile roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Nolan & Son, Carbondale, Pa.

**Residence,** College Heights, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owner, P. D. Wotring, 345 North Fourteenth street, Allentown, Pa. Brick, 2 stories, 34x40 feet, slate roof, hardwood floors, tile work, vapor heat, electric light. Contract awarded to Kester Const. Co., Twenty-seventh and Greenleaf streets, Allentown, Pa.

**Residence,** Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Mr. Dash, care of architect. Frame, 2½ stories, 38x30 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Speck Brothers, 49 West Broad street, Bethlehem.

**Bank and Apartment,** South Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Pasquale Castiello, 719 East Fifth street, Bethlehem, Pa. Brick, 3 stories and basement, 70x40 feet, slag roof, hardwood and concrete floors, electric light, tile and marble work, iron work. Contract awarded to H. E. Stoudt, 424 Avenue C, Bethlehem, Pa.

**School,** Whitehall Township, Lehigh County, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, School Board of Whitehall Township, Mr. Heilman, secretary, Allentown, Pa. Brick, 2 stories, composition roof, hardwood floors, metal lath, hollow tile, safety treads, roof ventilators. Contract awarded to Franklin Goldsmith, Catasauqua, Pa.

**Warehouse (add.),** Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Block Brothers, rear of 419 North Prince street, Lancaster, Pa. Fireproof mill construction, 4 stories, 36x90 feet and 36x36 feet, slag roof, maple floors, electric light, rolled steel sash, fire doors. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster, Pa.

**Church and Parsonage,** Fourth and Seneca streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Tabernacle Baptist Church, care of architect. Stone, 2 stories and basement, 40x60 feet, and 2 stories, 20x50 feet, slate roof, composition roof, hardwood floors (heating and plumbing reserved), metal lath, tile work, electric work, hollow metal skylights, roof ventilators. Contract awarded to Charles Lady, 2210 Green street, Harrisburg.

**Bank (alts. and add.),** Elizabethtown, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Elizabethtown National Bank, care of architect. Brick, 2 stories, irregular size, slag roof, pine floors, hot water heat, electric light, bank fixtures. Contract awarded to Hoffer Brothers, Elizabethtown, Pa.

**Inn (add.),** Buck Hill Falls, Pa. Architects, Bunting & Shirley, 602 Chestnut street, Philadelphia. Owners, Buck Hill Falls Inn, Buck Hill Falls, Pa. Reinforced concrete, stone, cut stone, stucco, 6 stories and base-

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ment, 26 feet 4 inches x 48 feet (heating and elevators reserved), electric light, tile and marble work, rolled steel skylights, floor hardener, iron stairs, iron work, dampproofing, plumbing, hollow tile, cement floors, copper single roof (Barrett's). Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**School**, Mocanaqua, Pa. Architect, R. A. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Conynham School Board, J. Hughes, Mocanaqua, Pa. Brick, 2 stories, 50x110 feet, slag roof, hardwood floors (heating, plumbing and electric work reserved), safety treads. Contract awarded to Berwick Lumber Co., Berwick, Pa.

**Store and Apartment (alts. and add.)**, Washington street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2 stories, 18x50 feet, 20x30 feet, inlaid slate roof, pipe floors, city steam heat, electric light, metal lath, tile and marble work, metal ceilings. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre.

**Rectory**, Honesdale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John's Roman Catholic Church, Rev. J. J. Hefferan, Honesdale, Pa. Stone, 3 stories, 36x80 feet, slate roof, hardwood floors, electric light, tile and marble work. Contract awarded to Eckert & O'Connell, Wilkes-Barre, Pa.

**Bridges (2)**, Shamokin, Pa. Architect, private plans. Owners, Philadelphia & Reading Railroad Company, Twelfth and Market streets, Philadelphia. Strengthening present structure. Contract awarded Bethlehem Steel Co., Morris Building, Philadelphia.

**Bridge over stream**, East of Rossmoyne, Pa. Architect, private plans. Owners, Philadelphia & Reading Railroad Company. Deck plate girder, 40-foot span, waterproof, concrete deck. Contract awarded steel work, Shoemaker Bridge Company, Stowe, Pa. Concrete, Seeds & Durham, 6314 Wissahickon avenue, Philadelphia. Waterproofing, Mimwax Co., Harrison Building, Philadelphia.

**Train Shed (floor repairing)**, Reading Terminal, Philadelphia. Architect, private plans. Owners, Philadelphia & Reading Railroad Company, Twelfth and Market streets, Philadelphia. Removing asphalt mastic waterproofing and replacing new material. Contract awarded: Steel work, Shoemaker Bridge Co., Stowe, Pa. Waterproofing, Martin Breen, Inc., 43 South Seventeenth street, Philadelphia.

**Bridge**, Melrose avenue, North of Chester, Pa. Architect, private plans. Owners, Philadelphia & Reading Railroad Company, Twelfth and Market streets, Philadelphia. Through plate girder, solid concrete waterproof floor, 64-foot clear span. Contract awarded: Superstructure, American Bridge Co., Widener Building. Substructure: C. P. Bowers, Tulip and Somerset streets. Waterproofing: Mimwax Co., Harrison Building, Philadelphia.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Luzerne County, Route 170, Fairview and Hanover Townships, \$78,991. Contract awarded to H. B. Sproul Const. Co., Scranton, Pa.

Somerset County, Route 50, Confluence Borough, \$42,834.00. Contract awarded to M. F. McCabe & Co., Fairmount, W. Va.

Cambria County, Route 276, Portage and Washington Townships, Portage, Cassandra and Lilly Boroughs, \$273,042.05. Contract awarded to P. C. Azzara Const. Co., Cresson, Pa.

Northampton County, A-2202, Hanover and East Allen Township, \$176,315.80. Contract awarded to W. A. Palmer, Bethlehem, Pa.

Northampton County, A-2309, Hanover and East Allen Township, \$116,989.65. Contract

awarded to W. A. Palmer, Bethlehem, Pa.

Northumberland County, R-161, Coal Township, \$70,605.20. Contract awarded to Highway Const. Co., Land Title Building, Philadelphia.

Erie County, R-88, Venango Township, \$190,583.08. Contract awarded to Meredith & McVaugh, Detroit, Mich.

Erie County, Route 304, Amity Township, \$103,428.00. Contract awarded to Fred W. Knickenberg, Buffalo, N. Y.

Lycoming County, Route 18, Loyalsoek Township, \$91,358.40. Contract awarded to George I. Thompson Co., Clearfield, Pa.

## New Jersey Construction News

**Moose Hall (alts. and add.)**, Linwood, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, L. O. O. M., care of architect. Frame, 2 stories, 42x27 feet, shingle roof, pine floors, electric lighting, roof ventilators. Plans in progress.

**School (high)**, May's Landing, N. J., \$285,000. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owners, Hamilton Township School Board, A. Smith, May's Landing, N. J. Brick, 2 stories and basement, 192x107 feet, slag roof, yellow pine floors (heating and lighting reserved), metal lath, tile work, safety treads, roof ventilators, rolled steel skylights, bond, dampproofing, iron stairs, ornamental iron work. Plans in progress.

**Store and Residence**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Board of Education, H. H. Young, 25 South Bartram avenue, Atlantic City, N. J. Brick, 2 stories, 45x97 feet, slag roof, concrete floors, rolled steel sash and skylights, fire doors (heating, lighting and plumbing reserved). Plans in progress.

**Atlantic City Vocational School (add.)**, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Board of Education of Atlantic City, H. H. Young, 25 South Bartram avenue, Atlantic City, N. J. Brick, steel, concrete, 5 stories, 34x114 feet, slag roof, concrete floors, electric light, metal window guards, waterproofing dampproofing, iron stairs and work. Plans in progress.

**Store and Apartment**, Glassboro, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Martin Sherwood, care of architect. Brick, 2 stories, 43x43 feet, slag roof, pine floors, steam heat, electric light, store fixtures. Architect ready for bids.

**Apartment**, Dover and Atlantic avenues, Atlantic City, N. J. Architects, Dobbins & Schmidt, Segel Building, Atlantic City, N. J. Owners, Shapiro, Knoll, Gold Co., Atlantic City, N. J. Brick, steel, 3 stories, 45x95 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work. Owners taking bids.

**Residence**, Haddonfield, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Arthur H. Holl, Haddonfield, N. J. Brick, 2½ stories, 30x60 feet, hot water heat, electric light, tile trimmed, slate roof, hardwood floors, tile work. Owner taking sub-bids.

**Glass Houses (5)**, Millville, N. J. Architect, R. W. Pollock, 8 South Hicks street, Philadelphia. Owners, Whitall Tatum Co., 410 Race street, Philadelphia. Concrete and steel, 1 story, electric light, dirt floors, rolled steel sash. Owners building.

**Anchorage Cable Bents**, Philadelphia, Pa., and Camden, N. J. Architect, private plans. Owners, Delaware River Bridge Joint Commission, J. K. Costello, secretary, 806 Wid-

ener Building, Philadelphia. Furnishing, fabricating, painting and erecting of steel, anchorage cable bents, approximately 1,900 tons of steel work, bond. Deposit, \$25. Refund, \$25. Owners taking bids due July 18th, 1.30 P. M. (standard time).

**Store and Apartment (alts. and add.)**, 41 West State street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, J. S. Vaughn, care of architect. Brick, 3 stories and basement, 20x80 feet, slag roof, pine floors, hollow tile, hot water heat, electric light, tile work. Architect taking bids due July 5th.

**Residences (6)**, Laurel avenue, Trenton, N. J., \$24,000. Architect, private plans. Owner, William H. Hayes, 659 Edgewood avenue, Trenton, N. J. Frame, 2½ stories, 14x42 feet, slate roof, pine floors, electric lighting. Owner will build.

**School**, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Pleasantville School Board, C. Smith, secretary, Pleasantville, N. J. Brick, concrete, 1 story, 56x90 feet, slate roof, hollow tile, metal lath, roof ventilators, waterproofing, dampproofing, iron work. Lowest bidder: J. Green, Pleasantville, N. J.

## New Jersey Contracts Awarded

**Electro Pneumatic Signal Tower**, Camden Terminal, Camden, N. J. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Atlantic City Railroad, care of Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Brick, cut stone, steel, 2 stories, 17x34 feet, one story boiler room, 16x18 feet, hot water heat, electric light, slate roof, cement floors, hollow metal doors, bond, iron stairs and work. Contract awarded A. L. Carhart, Penfield Building, Philadelphia.

**Storage House (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Trenton Malleable Iron Co., New York avenue, Trenton, N. J. Brick, 2 stories add., 74x30 feet, slate roof, concrete floors, electric light, steel sash, fire doors. Contract awarded to S. W. Mather & Son, Greenwood and Canal, Trenton, N. J.

**Residence**, Park avenue, Trenton, N. J., \$4,900. Architect, private plans. Owner, W. J. Harris, care of builder. Frame, 2½ stories, 20x30 feet, slate roof, pine floors, electric lighting. Contract awarded to Arthur Holford, 50 Bismark avenue, Trenton, N. J.

**Church (alt.)**, Woodbury, N. J. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Patrick's Roman Catholic Church, care of Rev. C. G. McCorriston, Woodbury, N. J. Stone, steel, cut stone, cut one story, 72x27 feet, slate roof, electric light, metal lath, pine and cement floors, limestone, ornamental iron work. Contract awarded to Joseph B. Best, Woodbury, N. J.

**Store and Apartment (alts. and add.)**, 423 Broadway, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Bernard Brinn, care of architect. Brick, 2 stories, 22x17 feet, tin roof, hardwood and pine floors, hot water heat, electric light, tile work, general interior alterations, metal ceilings. Contract awarded to Victor Bezahlar, 1027 Atlantic avenue, Camden, N. J.

**Schools (electric work and fixtures)**, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, School Board of Camden, A. Austermuhl, secretary, Camden, N. J. Electric work and fixtures, contracts awarded: Grant School, Friend and Linden streets, Peterson Electric Co., Camden, N. J.; Garfield School, Twenty-ninth and



Cramer streets, Peterson Electric Co., Camden, N. J.; Erevad School, Seventh and French streets, Peterson Electric Co., Camden, N. J.; McKinley School, Thirty-fifth and Mickle streets, Peterson Electric Co., Camden, N. J.; Bergen School, Fifth and Mt. Vernon streets, West Jersey Elec. Co., 905 Division street, Camden, N. J.; Lincoln School, Twelfth and Kaighn avenue, West Jersey Elec. Co., 905 Division street, Camden, N. J.

## Miscellaneous Construction News

**Bank Building**, Claymont, Del. Architect, W. E. Hance, Hollyoak, Del. Owners, Claymont Trust Co., Claymont, Del. Architect taking bids due July 7th.

**Church and Sunday School**, Fredonia, N. Y., \$125,000. Architects, Charles Bolton & Son, Witherspoon Building, Philadelphia. Owners, First Methodist Episcopal Church, Fredonia, N. Y. Brick, 1 and 3 stories, 125x60 feet, steam heat, electric light, slate roof, hardwood floors. Contract awarded Meister Cons. Co., Dunkirk, N. Y.

**Church**, Buffalo, N. Y., \$200,000. Architects, Charles Bolton & Son, Witherspoon Building, Philadelphia. Owners, Trinity Methodist Episcopal Church, Buffalo, N. Y. Stone, 1 and 3 stories, 175x70 feet, steam heat, electric light, slate roof, hardwood floors. Contract awarded to Robert E. Williams, Buffalo, N. Y.

**Club House**, Elmhurst, Long Island, N. Y. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Queensboro Lodge, No. 878, B. P. O. E., Elmhurst, Long Island, N. Y. General construction, refrigeration, heating, electric work, plumbing, swimming pool. Contract awarded to George McEntee, 103 Park avenue, New York City.

(Continued from page 420)

through, and space in almost any kind of a house costs at least \$6 a square foot. In using up space alone ordinary partitions thus cost \$3 a running foot.

The Flagg partition is all plaster and but an inch and three-quarters thick. It is fire- and vermin-proof, less subject to damage than ordinary ones because the plaster is thicker and quite as sound-proof.

Along a beam where the partition is to go are hung lengths of jute scrim like the material of burlap bags. The edges are basted together by twine with a bagging needle. At door openings and at walls, as well as at top and bottom, the scrim is attached with ordinary staples. Thus a curtain is formed. Now two plasterers, one on each side, go to work, facing each other, and put on the first rough coat, each working against the other. If only one plasterer is available, a laborer can hold a board up for him to work against. The curtain of plaster now must hang plumb, like a pendulum. The bottom hangs in the base-board. When the first coat is dry two more are put on in the regular way. And that is all there is to the Flagg partition, all lath and lumber and a great deal of labor being eliminated.

Partitions like these have been used for several years in New York apartment houses. They have been tested by the New York Fire Department under official test for the Building Department. They were made into the sides of a room eight by twelve feet, and the room was filled with cordwood soaked in kerosene to a height of two feet. The room was ignited and made into a roaring furnace and allowed to burn for an hour. Water through a fire hose at a pressure of forty pounds to the square foot was applied to the hot partitions at a distance of four feet. One slight bulge and one short crack developed. How long would the ordinary partition withstand such a test?

For greater strength, to carry loads, a bearing partition can be made in exactly the same way except that Portland cement mortar is used for the first coat instead of ordinary patent mortar. Of course in the ordinary small houses the weight of floors above is carried by walls, beams, and floor joists. "Economy in building," said Mr. Flagg, "consists in the aggregate of a great number of savings, which when considered separately may seem trivial, but which when combined are important."

### Mushroom Stone Walls

Nevertheless, there are a few more details that anyone can adopt, some of which are expressions of the fundamental artistic philosophy of this great architect.

The most important of these is the method of building a wall, the use of which to a large extent explains the difference in cost of the two buildings just mentioned, which, of course, are of stone. A rubble wall is built which Flagg calls "mosaic rubble," because the stone is set in dry, like mosaic work. It is constructed, not with masons at \$10 a day, but with ordinary labor at \$4 or \$5. The wall is built in a form in much the way concrete is poured into a form. The flat side of the stone is laid flush with the outer face of the form and concrete is shoveled in behind. No mortar is placed between the stones, but they are laid in dry and mortar is squeezed into the joints afterward when the forms are removed.

In practice forms are made of four-by-four uprights with holes for toggle pins and three-eight-inch planks are placed in position on the inside and outside of the proposed wall. Two feet of wall is constructed by the laborers placing stones and filling in with concrete and left overnight. The next morning the three-planks are slid up and another height of wall built and so on until completion. Concrete corner stones or cut stone for the corners is used. The forms are all "take down" and can be used over and over again. As the wall

grows in height a runway is built to carry the material up for placing.

### Fire-places That Actually Heat

When the wall is completed it is "pointed" or the chinks filled up. This is fast and easy work for a mason, who merely holds his board at right angles to the wall and pushes the mortar off into the holes. The result is a perfect rubble wall as fine as one built by a mason in entirety. And then one thing more—perhaps you don't want a stone finish on the inside of your house. Flagg has found that it is not necessary to erect two-by-fours and then add lath before plastering. No, he simply applies plaster-board to the damp cement in his kind of wall on the side, and the stuff sticks there. Then the plastering is done on the board in the usual way; the latter being a nonconductor prevents condensation and eliminates dampness inside from this cause. All trim—those ornate, molded bits of wood over and around doors and windows—is eliminated. The real member, such as the honest window frame, are made a little more carefully and then allowed to show.

American stairways, ornate and bulky, meet with Flagg's disapproval. They were one of the most expensive fixtures in a house, and to eliminate them he has designed a circular stone stairway made of cement blocks which is both beautiful and utilitarian. It takes up about one-quarter of the space and costs relatively little.

Fireplaces do not heat well. All the "B. T. U.'s" go up the chimney, it would seem. In the house which was building on Staten Island Mr. Flagg had designed the most original fireplace I ever have seen. It was recessed hardly six inches in the interior gable wall, and the only real chimney in sight was on the roof. The finished job, according to the drawings, was to form a hood out over a tile and brick flooring, so that the fire was open on three sides. The hood, resting on tile, is to be made of bronze, dull and rich, and is to extend clear to the roof tree, almost like half a cornucopia. It is going to be a stunning affair, and the chief *motif* of the room, but its purpose is utilitarian, not decorative. It is to be a hot box! It is really to heat the room as no fireplace I know of has ever heated a large room. This idea is an evolution from the Franklin stove and also from a little porcelain stove he once made use of in a German hotel.

(Continued Next Week)

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Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

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## BUILDERS.

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## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

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Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

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DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
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Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

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Ketcham, Howard ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No 28  
July 11, 1923

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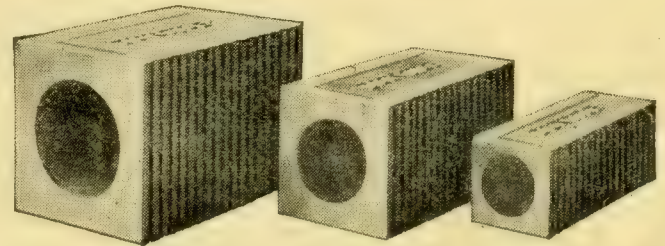
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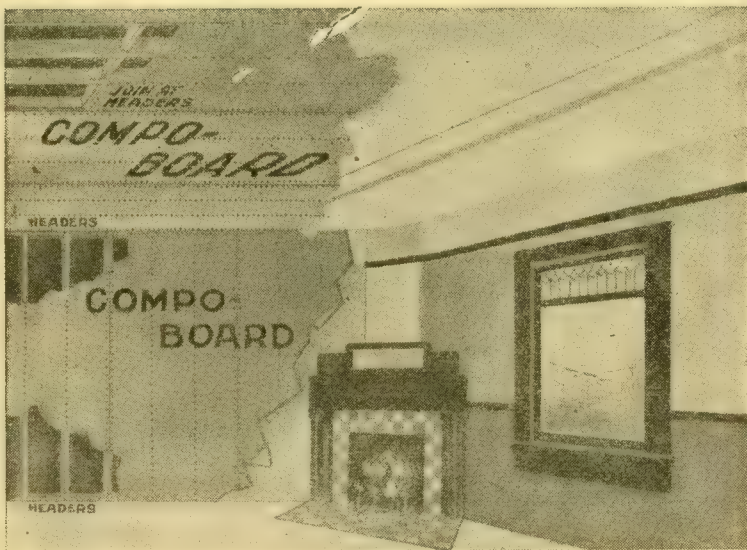
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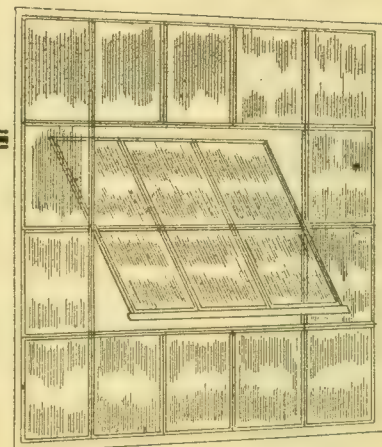
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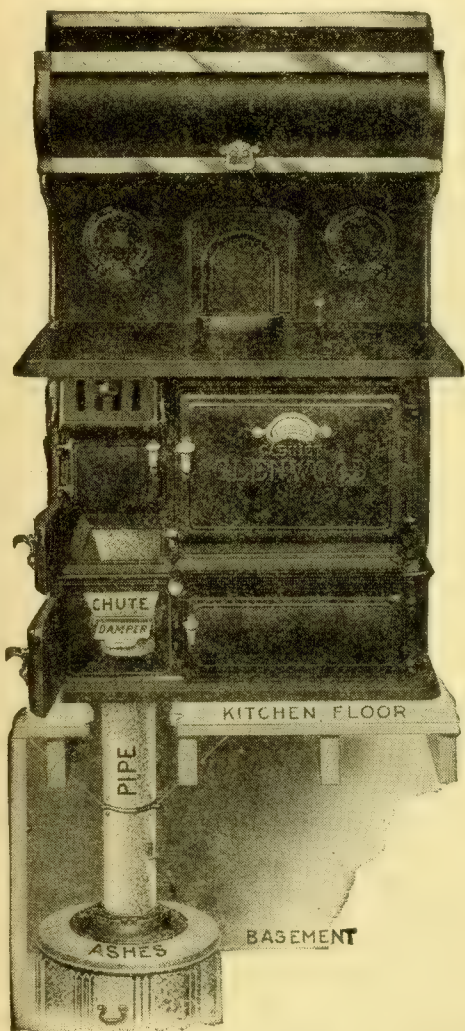
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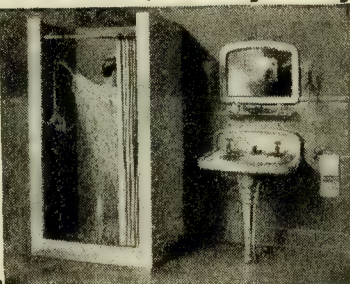
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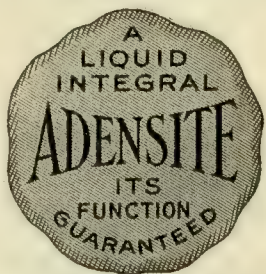
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Devoted to the Advancement of American Architecture, Structural  
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VOLUME XXXVIII  
Number 28

PHILADELPHIA  
July 11, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 821-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

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## As The Editor Sees It



THE semi-annual report of building operations in Philadelphia for the first six months of this year, published in full on other pages of this issue of the GUIDE is evidence that Philadelphia is experiencing the greatest building boom in its history. Great increase in building is noticeable in all types of building, especially in dwellings, and in all sections of the city.

In the first half of the year 1922, permits were issued for 6,498 new buildings at an estimated cost of \$44,785,830. In the first six months of 1923, permits for new buildings totaled 6,791, at an estimated cost of \$62,740,480. In 1922 additions, alterations and repairs for the first six months totaled 3,868, costing \$7,247,765; this year the same class of work, 3,888, costing \$11,441,240. Total work of all kinds including new buildings, additions, alterations, repairs and miscellaneous for first half of 1923 there were issued permits for 11,905 operations, at a cost of \$74,617,295. In 1922 the first half year had permits for 11,613 operations at a value of \$52,429,145.

The increase in building was not confined to any one month, but every month showed a larger number of permits issued this year than in corresponding months of last year. March showed a greater increase than any other month, and broke all monthly records in the history of the Philadelphia Bureau of Building Inspection. In March, 2,615

operations costing \$21,064,685 were begun. Never have the first six months of any year exceeded the total for the first half year of 1923, \$74,617,295. From the following tables we find the first six months of 1923 exceeded the total estimated cost of building for the entire year of every year on record in Philadelphia excepting 1922.

Year	Operations	Estimated Cost.
1909 .....	17,294	\$ 42,881,370
1910 .....	16,383	37,866,565
1911 .....	16,215	40,030,985
1912 .....	14,907	37,173,635
1913 .....	14,813	38,763,850
1914 .....	15,709	35,419,605
1915 .....	17,712	39,444,125
1916 .....	15,613	49,896,570
1917 .....	8,977	34,016,408
1918 .....	5,950	15,452,670
1919 .....	14,509	65,088,750
1920 .....	12,512	55,305,400
1921 .....	14,654	42,790,780
1922 .....	22,588	114,881,040

The greatest increase in the six months from January 1 to July 1, 1923, over the same period in 1922 occurred in dwellings of the two story type. In 1922, 4,744 operations costing \$21,256,015 were begun; in 1923, 4,892 operations costing \$25,530,830 were started. Three story houses for the same period fell off slightly from the high record of 1922, only 250 operations costing \$3,325,725 were started this year. Last year in the first

six months 301 three story houses costing \$3,519,905 were started. A perceptible increase in the number and value of garages was recorded the first half of this year, in 1922 919 costing \$1,837,470; this year, 1,125 costing \$2,213,000.

Manufactories show a decrease in number, but a large increase in value. In first six months of 1922, 61 manufactories costing \$2,354,310, were started; in 1923, same period, 49, costing \$4,312,600. Schools again showed an increase from 9 costing \$3,665,150 in 1922, to 10 costing \$4,794,755. Tenement houses showed a large increase from 23, costing \$1,252,000 in 1922, to 62, costing \$3,436,840. The largest class of buildings in value, next to dwellings, was office buildings, in which 29, costing \$8,070,200, were begun.

In two story dwellings the forty-second and fortieth wards show the largest number of buildings started. In the forty-second ward a slight decrease in number compared to first half of 1922 is noticeable, 1,841 dwellings having started in 1922 and 1,727 in 1923. The fortieth ward showed a slight increase so far in 1923, 578 to date compared to 551 in 1922.

If 1923 maintains the present percentage of increase for the next six months, the total cost of building in Philadelphia in 1923 will far exceed the record of any year in the history of the city. The building boom manifested in the first six

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months of 1923 was confined not only to Philadelphia but existed throughout the entire country. There exists today, however, a lull in building work in Philadelphia as shown by the records of the Bureau of Building Inspection for June which shows a decrease of \$4,819,363, as compared with the corresponding month last year.

Many large projects and a considerable quantity of residential work is held up, due to high costs, particularly of labor. The falling off in quantity of building has been observed by material houses which have shown a tendency to be less stiff in prices. The recession in building is a wholesome condition as the result will be a more sensible appreciation on the part of labor of what it now enjoys, and a more normal distribution of building demand over the year.

### THE NEED TO CARRY ON

American fire losses, after the war, began to climb with astounding rapidity towards the half-billion mark. Last year they reached this point—reached it and kept on soaring until they registered a total of \$521,860,000. For \$521,860,000 is the estimate, made by the Actuarial Bureau of The National Board of Fire Underwriters, of the 1922 aggregate.

This sum, as retiring President John B. Morton reminded those in attendance at the fifty-seventh annual meeting of the Board, rises far above even the total for 1906, which was swollen abnormally by the burning of San Francisco. It represents the largest fire loss ever recorded by any nation for a single twelve-month. Moreover, no great conflagration contributed to this total.

What, then, will account for this monstrous figure? Are there in operation any laws, natural or economic, which tend to make this mounting fire loss uncontrollable? Inflated property values have played a part in raising the total; likewise, the congestion of population in a comparatively small number of cities. But losses by fire have greatly outstripped the growth in population. In 1912, for example, the United States Census Bureau reported a total population of 95,410,503, and the per capita fire destruction was \$2.16. By 1922, a decade later, the population had increased but 15%, while the average individual share in the burning toll amounted to 4.75—a jump of 120%. The contrast between this figure and that recorded for Great Britain during the same year—72 cents!—is shameful.

Inescapable, therefore, is the conclusion that the largest part of this humiliating American fire record in 1922 was the product of public carelessness. Carelessness in America is on a gigantic scale, a scale such as could obtain only in a coun-

try where the memory of days of abundance still is vivid—much too vivid, alas, for our immediate and future good. Our vision mistakes a shade for something palpable. But in Great Britain, and throughout Europe generally, the days of plenty are remote; they departed so long ago that even the tradition of them is misty, is almost forgotten. Loss of natural resources is of course a deplorable thing; still, it is not without compensation, for protection of every kind of property against waste by fire has become, in those lands, a settled rule of conduct to which is born each succeeding generation. Every man feels himself to be the guardian of what remains. So it must become in America; and it will inevitably.

Dismal the present situation appears, but there is not a little encouragement in the certain knowledge that, without the vigorous fire prevention effort of recent years, the 1922 exhibit would have been worse than it was—worse by many millions of dollars.—*Safeguarding America Against Fire.*

(Continued from last week)

Screens? Since he always uses casement windows opening inward, instead of using screen frames that are taken down once a year, Flagg tacks on a copper screen permanently. You can hardly see it from the inside, and it should last as long as the house. Used this way, it is cheaper than ordinary framed wire screens. Leaders to catch the roof water? Not any. He builds a little cement walk close to the foundation wall all the way round to act as a safety, frost-proof blanket. It prevents the rain water from wearing off the ground. He says that leaders are ugly and often spoil the symmetry of an otherwise well-designed house. They are not really necessary, and he uses them only where absolutely necessary over a doorway or along a terrace and then as little as possible. Saves a lot of money too.

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To me there was a real thrill in seeing

(Continued on page 446)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Stores and Apartments (3)**, Southeast Corner Fifty-eighth and Master streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 2 stories, 16x79 feet, demolition, hot water heat, electric light, marble work, hollow metal sash and skylights, store fixtures, bond, flush bulks, metal lath, slag roof, yellow pine floors. Plans in progress.

**Stores (4), Apartments (6), Garages (2)**, Thirty-second and Ridge avenue, Philadelphia. Architect, W. L. Charr, 149 South Fourth street, Philadelphia. Owner, care of architect. Brick, 3 stories, 9 feet 3 inches x 76 feet, 65x93 feet, demolition, hot water heat, electric light, tile and marble work, hollow metal skylight, store fixtures, bond, metal bulks, metal lath, slag roof, hardwood and yellow pine floors. Plans in progress.

**Apartment House**, Southwest Corner Forty-eighth and Walnut streets, Philadelphia. Architect and engineer, J. L. Stetler and M. H. Deysner, 1580 North Fifty-second street. Owner, Samuel Cohn, 411 South Sixty-second street, Philadelphia. Brick, concrete and steel, limestone, granite, terra cotta, semi-fireproof, 4 stories, 130x185 feet, vapor heating, slag roof, hardwood and composition floors, electric light, tile, marble and terrazzo work, elevators, roof ventilators, hollow metal skylight, fire tower, dumb waiters, hollow metal doors. Architect taking sub-bids.

**Apartment House**, 705 West Dauphin street, Philadelphia. Architect, Paul Livingstone Boyd, 6943 Limekiln Pike, Pa. Owner, Fred C. Hangsterfer, 2312 Germantown avenue, Philadelphia, Pa. Brick, 3 stories, 16 feet 4 inches x 40 feet, cement work, hardwood floors, slag roof, galvanized iron work, electrical work, iron work, hot water heat. Owner taking bids.

**Residence (alt.) into Apartments**, 4417-19 Baltimore avenue, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, K. Goldberg, care of architect. Brick, 4 stories, general remodeling of interior, hot water heat, electric light, hardwood floors, mill work, new partitions. Architect is taking sub-bids.

**Garages (7)**, Collon and Rubican sts., Philadelphia. Architect, M. Capobianco, 778 South

Seventh street, Philadelphia. Owner, care of architect. Brick and stone, 1 story, 8x16 feet, slag roof, cement floors, electric lighting, metal partitions, concrete foundations, drainage. Plans in progress.

**Club House (alts. and add.)**, 1226 South Broad street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Cincolo Dante Alighiere, on premises. Brownstone, shingled, 2 stories, 8 feet 9 inches x 108 feet, slag roof, electric lighting, hardwood floors, stone logues, masonry, structural steel. Bowling alleys in basement. Plans in progress.

**Houses (9)**, Old York road and Mineral street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Antonio Cipriano, care of architect, and Frank Lucia, associate owner. Brick, 2 stories, 16 feet 6 inches x 56 feet, hot water heat, electric light, slag roof, pine floors, garages in basement. Plans in progress.

**Buildings (3) (alt.)**, Fairhill and Carpenter streets, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Antino Longo, 526 Carpenter street, Philadelphia. New, 3 stories front to building on tapestry brick, slag roof, electric light, floors raised to level of cornerstone, carpentry and mill work, iron balcony. Plans in progress.

**Garage (alts.)**, 843 Kimball street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Attilio Sposito, 1011 South Ninth street, Philadelphia. Brick, slag roof, cement floors, electric light, carpentry and mill work, concrete foundations. Architect and owner taking bids due as soon as possible.

**Residence and Store (alts.)**, 815 South Tenth street, Philadelphia. Architect, M. Capobianco, 778 South Seventh street, Philadelphia. Owner, Donito Madonna, 817 South Tenth street, Philadelphia. Electric light, pine floors, carpentry and mill work, heating. Plans in progress.

**Madonna House**, Christian street, near Tenth street, Philadelphia. Architect, Charles J. Cumiskey, 118 West Sharpnack street, Philadelphia. Owners, Catholic Missionary Society, Rev. Edward T. Lyng, Director, St.

Paul's Roman Catholic Church, Tenth and Christian streets, Philadelphia. Brick, steel, limestone, cut stone, 3 stories and basement, 43x70 feet, slag roof, granolithic, maple and pine floors, safety treads, metal window guards, metal lath, marble work, hollow metal doors, bond, iron work (heating, electric fixtures and fly screens reserved), electric work. Architect taking bids due July 12th.

**Factory**, Bristol, East of Wayne avenue, Philadelphia. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, E. Stanley Perkins, care of architect. Brick, cut stone, 1 story, 117x115 feet, slag roof, cement floors, roof ventilators, wire window guards, cold water painting, waterproofing, bond, ornamental iron work, rolled steel doors. Architect taking bids due July 13th.

**Cables**, Contract No. 8, Delaware River Bridge, Philadelphia. Architect, private plans. Owners, Delaware River Bridge, J. K. Costello, secretary, 608 Widener Building, Philadelphia. Two main cables to be erected between Philadelphia anchorage (Delaware avenue, Race, Front and Summer streets), Camden anchorage (north of Pearl street and about 472 feet west of Delaware avenue in Camden), passing over the main tower located in the Delaware River near the pier head lines on Pennsylvania and New Jersey side. Deposit, \$25.00. Refund, \$25.00 bond. A certified check for \$100,000 must accompany each bid. Owner taking bids due August 15th, 1.30 P. M. (standard time).

**Subway Construction**, Contract No. 207, Philadelphia, \$1,500,000. Architect, private plans. Owners, Department of City Transit, William F. Twining, 1211 Chestnut street. Constructing 1,529 lineal feet of two-track subway in Arch street, between Eighth and Thirteenth streets. Architect taking bids due July 24th noon (daylight saving). Deposit, \$20.00. Refund, \$20.00. Bids must not exceed approximate cost.

**Hospital Building**, Byberry, Pa. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals, 584 City Hall. Furnishing and installing manholes and underground telephone conduit equipment at Philadelphia Hospital for Insane. Furnishing and installing counters, black iron cage work, tables, sinks, display cases and electric centrifuge for Male Infirmary Building. Furnishing and installing tables, sinks, counters, black iron cage work, wall tables, display case, electric centrifuge for Administration Building. Owner taking bids due July 17th, 12 o'clock (standard time). Inquire Room 466. Plans may be had from architect's office.

**Sewers, etc.**, Philadelphia, Pa. Architect, private plans. Owners, Department of Public Works, Bureau of City Property, F. H. Craven, Room 216, City Hall. Schedule A, branch sewers. Schedule B, Northeast sewage treatment work. Contract No. 3, plumbing in Administration Building. Schedule C,

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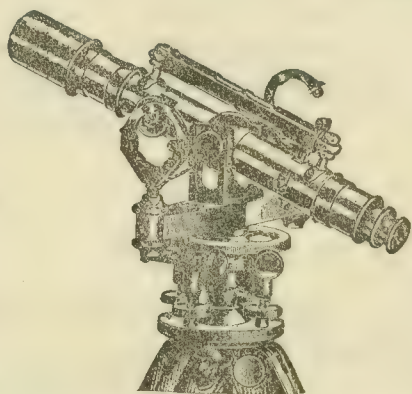
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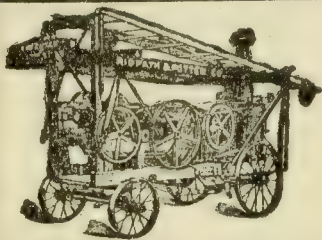
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Frankford grit chamber. Contract No. 2, fences and gates. Owner taking bids due July 17th at 11 A. M. (standard time). Inquire Room 416.

**Grading, etc.,** Philadelphia. Architect, private plans. Owners, Department of Public Welfare, Bureau of Highways, F. H. Craven, 216 City Hall. Grading, completion of incinerator foundations. Owner taking bids due July 12th, 11 A. M. (standard time). Inquire Room 232.

**Residences (28),** North side Champlost avenue, between Ogontz and Nineteenth streets, Philadelphia; total, \$146,400. Architect, private plans. Owner, Thomas J. Kelly, 2028 Sixty-sixth avenue, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2),** North side Byberry Road, West of Bustleton avenue. Architect, private plans. Owner, C. S. Worthington, Somerton, Philadelphia. Frame, 2 stories, 26x34 feet, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (8),** 6727-41 Marsden street, Philadelphia, total \$32,200. Architect, private plans. Owner, James W. Orr, 3532 Kensington avenue, Philadelphia. Brick, 2 stories, 15x37 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Car Barn (alts.),** Southwest Corner Twenty-fourth and Fairmount avenue, \$30,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 820 Dauphinstreet t, Philadelphia. General alterations. Owner will build.

**Residence,** 8410 Navahoe street, Philadelphia, \$16,500. Architect, Samuel W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Walter H. Chapman, 1416 Widener Building, Philadelphia. Brick, 3 stories, 38x25 feet, 1 story, 10x10 feet, tile work, hot water heat, electric light, shingle roof, oak, yellow pine and composition floors. Also garage, brick, 1 story, 22x22 feet, cost \$2,300. Owner will build.

**Residences (5),** Germantown avenue and Upsal street, Philadelphia, \$52,000. Owner, James P. Tyrell, 3329 Krail street, Philadelphia. Brick, 3 stories, (1) 22x34 feet and (4) 20x33 feet, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will build.

**Residences and Stores (2),** 2374-76 Duncan street, \$11,500. Architect, private plans. Owner, Stanley Dombroski, 2385 Orthodox street, Philadelphia. Brick, 2 stories, 20x65 feet and 16x58 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Store (alts.),** 5611-13 Germantown avenue, Philadelphia, \$10,000. Architect, private

plans. Owners, F. W. Woolworth Co., on premises. General alterations. Owners will build.

**Bakery,** 4923-25 Kershaw avenue, Philadelphia, \$8,000. Architect, private plans. Owner, James Gentile, 4978 Thompson street, Philadelphia. Brick, 1 story, 29x70 feet. Owner will build.

**Residences (7),** (1) Oxford avenue, East of Verce road, \$8,000, and (6) Shelbourne street, South of Princeton avenue, \$4,200 each. Owner, M. Stevens, 916 St. Vincent street, Philadelphia. Brick, 2 stories, (1) 30x32 feet, (6) 14x38 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (2),** East side Germantown avenue, North of Evergreen, \$8,000 each. Architect, private plans. Owner, J. Gorchov, 4116 Girard avenue, Philadelphia. Brick, 2 stories, 14½x58 feet, and 1 story, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence,** Northeast Corner Lawton avenue and Fry street, Philadelphia, \$6,000. Architect, private plans. Owner, Carl F. E. Schwartz, 5123 North Tenth street, Philadelphia. Frame, 2 stories, 26x40 feet, hot air heating, electric lighting, tile work. Owner will build.

**Garage,** 2235 Georges Lane, Philadelphia, \$3,000. Architect, private plans. Owner, L. J. Deal, on premises. Stone, 2 stories, 21x35 feet, cement floors, electric light. Owner will build.

**Garage and Storage,** West side Eighty-fourth, North of Dicks avenue, \$2,000. Architect, private plans. Owner, A. Augustine, Sr., Eighty-fourth and Dicks avenue, Philadelphia. Brick, 2 stories, 24x16 feet, slag roof, cement floors, electric work. Owner will build.

**Pier (repairs),** South street, over P., B. & W. R. R., Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, Room 216, City Hall, Philadelphia. Only bidders. Underpinning & Foundation Co., Finance Building, Philadelphia, \$14,962; Harry Eyre, 1212 North Delaware avenue, Philadelphia, \$24,750.

**Miscellaneous Work,** Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, F. H. Craven, Director; J. H. Noeson, Chief of Bureau, City Hall. Foundations for oil tanks, low bidder, Robbins Cont. Co., 1137 North Front street, \$12,000; I. Kauffman, North American Building, \$12,300. Reconstruction, Summitt Avenue Bridge, F. J. Boas, 201 North Broad street, Philadelphia, \$8,200; Beam, Craven Co., 605 Market street, Philadelphia, \$8,237.

**Shelter Building (2),** Holmesburg, Pa. Architect, J. P. B. Sinkler, 1211 Chestnut street,

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**Alterations**, 323 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Fidelity Trust Co., W. C. Littleton, vice-president, on premises. Concrete and cement work, steel work, plastering, terrazzo work, carpentry and mill work, paning and glazing, plumbing, heating repairs, electric repairs. Architect taking bids.

**Building**, 1921 Walnut street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Miss M. Adler, on

premises. Brick, cement work, cut stone, steel, plastering, carpentry and mill work, bulk windows, painting and glazing (plumbing, heating and electric reserved). Architect taking bids due July 19th.

**Store (alts.)**, 1205-09 North Fifty-second street, Philadelphia, \$10,000. Architect, private plans. Owners, Woolworth Company, on premises. General alterations, carpentry, mill work, plastering, painting, glazing. Owner will build.

**Residences (2)**, 429-31 Bristol street, Philadelphia, \$3,800 each. Architect, private plans. Owner, F. Elwood Raub, 508 Oak Lane, Philadelphia. Brick, 2 stories, 15x34 feet, 12x14 feet, slag roof, pipeless heater, electric lighting. Owner will build.

**Garage**, Pearl street, West of Thirty-fifth street, Philadelphia. Architect, W. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, A. Gelvinis, on premises. Brick, 1 story, 30x39 feet, electric, slag roof, cement floors. Plans in progress.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Public School**, Forty-eighth and Fairmount, Aspen and Forty-seventh streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, granite, cut stone, reinforced concrete, steel, 3 stories and basement, 290x182 feet (plumbing, heating, electric separate), composition, asbestos shingle roof, concrete, maple, oak, mastic asphalt floors, metal lath, tile, marble and terrazzo work, sheet metal sash, rolled steel skylights, hollow metal doors, bond, iron work and stairs, safety treads, roof ventilators, metal weather strips, waterproofing, terra cotta. Contracts awarded to: M. Melody & Son, 1322 Race street, Philadelphia, \$855,953. Electric, J. A. Cummins & Son, 4526 Frankford avenue, \$32,437. Heating, Faith & Co., 2427 Pennsylvania avenue, Philadelphia, \$89,500. Plumbing, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$38,920.

**Bank Building**, 4643-45 Frankford avenue, Philadelphia, \$137,000. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Western Saving Fund, Robert J. Bunker, Tenth and Walnut streets. Brick, cut stone and steel, 1 story and basement, 83x40 feet, slag roof, cement floors, waterproofing, iron work, floor hardener, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

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Philadelphia

ATLANTIC TERRA COTTA

Face Brick, Hollow Tile,  
Roofing Tile, Fox Croft Stone

**Service Wing**, Broad and Ontario streets, Philadelphia. Architect, Amos W. Barnes, 22 South Seventeenth street, Philadelphia. Owners, Samaritan Hospital, on premises. Brick, reinforced concrete, cut stone, steel, limestone and granite, 7 stories and basement and sub-basement, 181x50 feet, slag and tile roof, concrete and linoleum floors, hollow tile, waterproofing, terra cotta, iron work, iron stairs, rolled steel skylight and sash, tile and marble work, metal lath (heating, lighting and plumbing reserved). Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

**Train Shed, etc., and Basement in Court of Merchandise Building**, Philadelphia, Pa. Architects, George Nimmons & Co., 122 South Michigan avenue, Chicago, Ill. Owners, Sears-Roebuck Co., Philadelphia, Pa. Reinforced concrete, brick, steel, 190x76 feet, basement 270x120 feet, composition roof, cement floors, caisson foundations, rolled steel shutters and sash, galvanized iron skylights, fire doors, bond, iron work and stairs, terra cotta, waterproofing (heating, electric, sprinkler system and conveyor work reserved). Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.



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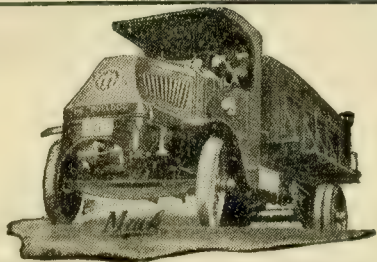
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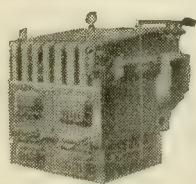
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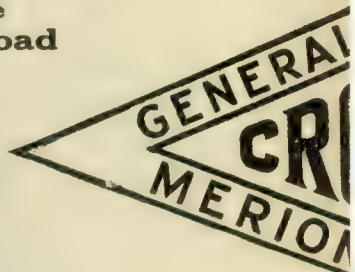
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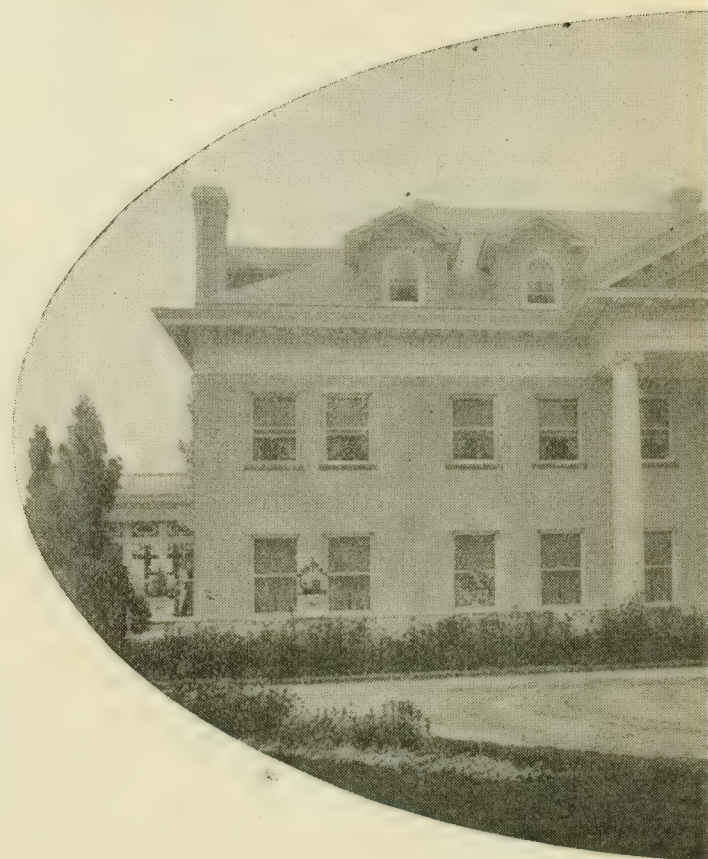
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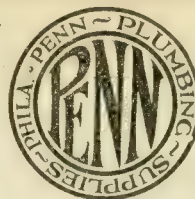
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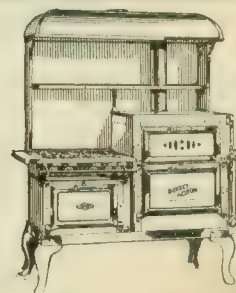
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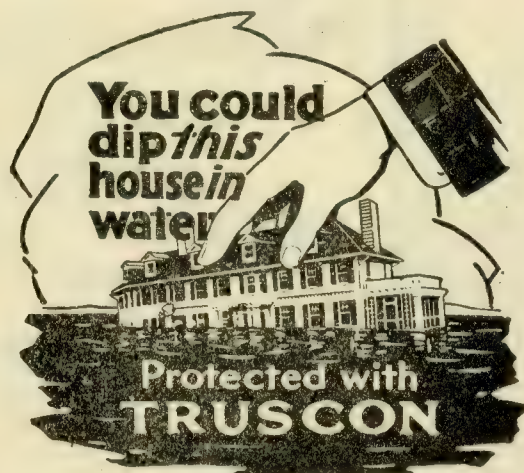


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**Laboratory**, 234-36 North Broad street, Philadelphia, \$50,000. Architect, Henry C. Helton, 151 West Forty-second street, New York City. Owners, Hahnemann Hospital, 232 North Broad street, Philadelphia. Brick and stone, 2 stories, 45½x58½ feet and 37x142 feet, slag roof, steel sash, tile work, composition floors, cement floors, metal lath. Contract awarded to George F. Payne Co., Stock Exchange Building, Philadelphia.

**Store**, 5529 Germantown avenue, \$75,000. Architect, private plans. Owners, S. S. Kresge Co., Detroit, Mich. Brick, steel, artificial stone, 2 stories, 40x15 feet, steam heat, slag roof, iron work, electric light, tile, marble and terrazzo work, maple floors. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue.

**Building (alts. and add.)**, 1818 Locust street, Philadelphia, \$31,000. Architect, E. F. Hoffman, 315 South Fifteenth street, Philadelphia. Owner, I. Stern, care of architect. Brick, concrete, steel, 5 stories, 20x94 feet, slag roof, electric light, plastering, painting and glazing, carpentry and mill work, metal lath. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Parish House**, Rittenhouse and McCallum streets, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Barnabas' Protestant Episcopal Church, Rev. E. S. Taylor, 112 West Rittenhouse street, Philadelphia. Stone, steel

and precast stone, 2½ stories, 72x41 feet, slate roof, oak and yellow pine floors, bond, ornamental iron work, electric lighting, steam heating. Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

**Garage**, 6138 Columbia avenue, Philadelphia. Architect, P. S. Tyre, 1509 Arch street, Philadelphia. Owner, George L. Fisher, 6008 Jefferson street, Philadelphia. Brick, 1 story, 22x32 feet, asbestos shingle roof, cement floors, electric lighting, ornamental iron work. Contract awarded to W. O. Springer, 2004 Naudain street, Philadelphia.

**Office (alts. to elevator shaft)**, 1415 Locust street, Philadelphia, \$7,500. Architect, A. Levy, Real Estate Trust Building, Philadelphia. Owners, Keystone State Realty Co., 1415 South Penn Square, Philadelphia. Brick, plastering. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

**Store (alts.)**, 2635 Germantown avenue, Philadelphia. Architect, H. P. Weldon, 1627 Sansom street, Philadelphia. Owners, S. J. Lyons Co., 2256 North Front street, Philadelphia. Brick, stone and steel, electric light, composition roof, metal lath, tile, marble and terrazzo work, plastering, copper sash, painting and glazing hardware. Contract awarded to Paul Brosz, 2511 West Huntingdon street, Philadelphia.

**Alterations**, 709 Sansom street, Philadelphia, \$4,500. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owners, T. L.

Hagstoz & Sons, on premises. Electric lighting, carpentry and mill work, plastering, painting and glazing, plumbing, metal lath. Contract awarded to Knox Landers, 1132 Vine street, Philadelphia.

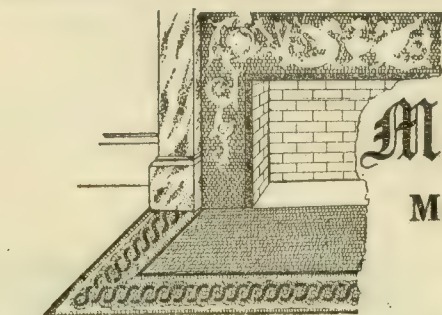
**Building (alts.)**, 150 Willow street, Philadelphia. Architect, Edgar A. Weightman, 1213 Filbert street, Philadelphia. Owner, P. W. Kieffer Estate, care of architect. Brick, walls, rolled steel sash. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street.

**Building**, 1304-12 Spring Garden street, Philadelphia. Architect, private plans. Owners, H. A. Dreer, Inc., 714 Chestnut street, Philadelphia. Reinforced concrete and steel, 8 stories and basement, 60x100 feet. Contract awarded to J. N. Gill Const. Co., Otis Building, Philadelphia.

**Building (alts. and add.)**, 262 South Seventeenth street, Philadelphia, \$3,000. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Fried, Fishman & White, agents, 605 South Tenth street, Philadelphia. Brick, cut stone and granite, 1 story, 11x15 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble work, iron work. Contract awarded to A. Nardy Sons & Co., 761 South Thirteenth street, Philadelphia.

**Warehouse**, South side Brown street, West of Third street, Philadelphia, \$96,000. Architect, private plans. Owners, G. H. P. Cigar Co., on premises. Brick, 2 stories, 56x85 feet, 74x80 feet, slag roof, cement floors, steam heat, electric light, steel sash, elevator. Contract awarded to George Tomlinson & Son, 1713 Sansom street, Philadelphia.

**Service Station**, Northwest Corner Thirty-first and Spring Garden streets, \$10,000. Architect, private plans. Owners, Crew-Levick Co., 219 North Broad street, Philadelphia.



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Brick, 1 story, 16x12 feet, tile roof, cement floors, electric work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

**Residence**, 3028 E street, Philadelphia, \$6,500. Architect, private plans. Owner, Katharine Goganzner, care of builder. Brick, 2 stories, 15½x42 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to James Connor, 2820 Frankford avenue, Philadelphia.

**Garages (2)**, Northeast Corner Collins and Ontario streets, Philadelphia, \$10,700. Architect, private plans. Owner, George W. Sperr, 3439 Frankford avenue, Philadelphia. Brick, 1 story, 108x33 feet and 16x108 feet, slag roof, cement floors, electric lighting. Contract awarded to A. E. Barnes & Co., 2044 East Clementine street.

**Residence and Store (alts. and add.)**, Southeast Corner Seventeenth and Victoria, \$5,000. Architect, private plans. Owner, I. B. Neifield, 2453 North Thirty-first street, Philadelphia. Brick, 2 stories, 15x18½ feet, general alterations. Contract awarded to David Resnick, 1710 North Lindenwood street.

**Garages (2)**, 2841-45 North Croskey street, Philadelphia, \$5,000. Architect, private plans. Owner, Mrs. H. J. Botteicher, 2845 North Croskey street, Philadelphia. Brick, 1 story, 45x17 feet, 17x31 feet, and 1 story, 16x34 feet, slag roof, cement floors, electric lighting. Contract awarded to Charles D. Land, Southwest Corner Chalmers and Marston streets, Philadelphia.

**Store and Apartment (alts. and add.)**, 2821 Girard avenue, \$6,000. Architect, private plans. Owner, Samuel Blackman, 2738 Girard avenue, Philadelphia. Brick, 1 story, 18x8 feet, general alterations. Contract awarded to George A. Nahm, 2736 Girard avenue, Philadelphia.

**Store and Residence (alts. and add.)**, 1618 Pine street, \$7,000. Architect, private plans. Owner, A. Spater, 1503 Pine street, Philadelphia. Brick, 3 story add., 12x26 feet, general alterations. Contract awarded to Dickinson Const. Co., 1120 Dickinson street.

**Warehouse (alts.)**, 1905-07 Germantown avenue, Philadelphia, \$8,000. Architect, private plans. Owners, Fred Hodgson & Son, on premises. General alterations. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

**Tank Support**, 1220 Market street, Philadelphia, \$5,000. Owners, Block Estate, on premises. Steel. Contract awarded to Rosling Co., 26 Courtland street, New York.

**Manufacturing Building (alts. and add.)**, Northeast Corner Twenty-eighth and Parrish, \$4,000. Architect, private plans. Owners, Powell Knitting Co., Twenty-eighth and Parrish streets, Philadelphia. Brick, 1 story, 2½x14 feet, general alterations. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

**Residence (alts.)**, 7620-22 Ridge avenue,

Philadelphia, \$3,000. Architect, private plans. Owner, Jacob Aronson, on premises. General alterations. Contract awarded to J. Copeland, 1218 North Seventh street, Philadelphia.

**Garage**, 4433 North Eighteenth street, Philadelphia, \$3,000. Architect, private plans. Owner, H. Weiser, on premises. Brick, 1 story, irregular shape, slag roof, cement floors. Contract awarded to Paul Brosz, 2511 West Huntingdon street, Philadelphia.

**Stable and Shop (alts.)**, 5151 Germantown avenue, Philadelphia, \$2,800. Architect, private plans. Owner, A. Kuntzman, on premises. General alterations. Contract awarded to David Resnick, 1710 North Lindenwood street.

**Garage**, 317 East Collom street, Philadelphia, \$2,400. Architect, private plans. Owner, G. Chirido, on premises. Brick, 1 story, 62x17 feet, slag roof, cement floors. Contract awarded to L. Lombardi & Co., 54 East Collum street, Philadelphia.

**Residence and Store (alts.)**, 2026 East Tioga street, \$3,500. Architect, private plans. Owner, Mr. Morganstein, on premises. General alterations. Contract awarded to William McFarlane, 3648 Frankford avenue, Philadelphia.

**Residence and Store (add.)**, 878 North Marshall street, \$2,000. Architect, private plans. Owner, Morris Fadder, on premises. Brick bake oven, 10x13 feet. Contract awarded to A. Patchifsky, 1609 South Sixth street, Philadelphia.

**Store (add.)**, 1601 South Twenty-first street, Philadelphia, \$3,000. Architect, private plans. Owner, Dom. Silvano, on premises. Brick, 1 story, 18x22 feet, slag roof, pine floors. Contract awarded to N. Brandolin, 1412 South Fifteenth street, Philadelphia.

**Garage**, West side Seventh street, South of Schiller street, Philadelphia, \$3,500. Architect, private plans. Owner, W. T. Chapman, 1805 West Venango street, Philadelphia. Brick, 1 story, 34x82½ feet, slag roof, cement floors, electric work. Contract awarded to Joseph Reed, 436 Purdy street, Philadelphia.

**Garage**, 3413-15 Frankford avenue, Philadelphia, \$2,400. Architect, private plans. Owner, Harry Smith, on premises. Brick, 1 story, 30x19 feet, slag roof, cement floors, electric work. Contract awarded to Crossley & Co., 2033 East Tioga street, Philadelphia.

**Residence and Store (alts.)**, 5401 Pine street, Philadelphia, \$2,200. Architect, private plans. Owner, S. Silverman, on premises. General alterations. Contract awarded

to I. Angerman, 1435 North Franklin street, Philadelphia.

**Residence (add.)**, 726 Mercy street, Philadelphia. Architect, private plans. Owner, J. Mazsarella, on premises. Brick, 2 stories add., 11x11 feet. Contract awarded to Roman Const. Co., Ninth and Dickinson streets, Philadelphia.

**Residence and Store (add.)**, Southwest Corner Twenty-ninth and Westmont streets, \$2,000. Architect, private plans. Owner, A. Miller, 1916 Glenwood avenue, Philadelphia. Brick, 1 story, 12x13-foot add. Contract awarded to A. Miller, 1912 North Patton street, Philadelphia.

**Manufacturing Building (alts.)**, 1730 North Fifth street, Philadelphia, \$2,000. Owners, McNeely & Co., 1732 North Randolph street, Philadelphia. General alterations. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

**Residence and Storage House (add.)**, West side Budd street, South of Westmoreland avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Julius Sostman, 1313 Wingo-hocking street, Philadelphia. Brick, second story add., 16x18 feet and 13x14 feet. Contract awarded to Gourly Const. Co., Twenty-first and Ridge avenue.

**Residence and Store (alts.)**, 320 South Fifty-sixth street, Philadelphia, \$2,400. Architect, private plans. Owner, Jack Polon, 322 South Fifty-sixth street, Philadelphia. General alterations. Contract awarded to Samuel H. Arnon, William Penn Post Office, Montgomery County, Pa.

**Manufacturing Building (alts.)**, South side Somerset, East of Lawrence, \$3,900. Architect, private plans. Owners, Quaker Lace Co., Fourth and Lehigh avenue, Philadelphia. Carpentry, mill work, plastering, cement work. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

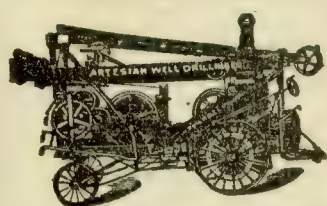
**Store and Factory (alts. and add.)**, 334 Market street, \$2,000. Architect, private plans. Owners, Ideal Shoe Co., on premises. Brick, 1 story add., 2x24 feet, slag roof, general alterations. Contract awarded to Max Katz, 5948 Callowhill street, Philadelphia.

**Smoke House (reconstruction)**, Thirtieth and Race streets, Philadelphia. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia. Reinforced concrete, steel, brick, cement work, hollow tile, plastering, galvanized iron skylights, tin-clad fire doors, bond, iron work. Contract awarded to Armstrong & Latta, Land Title Building, Philadelphia.

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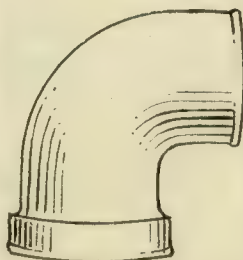
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**Factory Building**, Sixty-eighth and Elmwood avenue, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, General Electric Co., Witherspoon Building, Philadelphia. Brick, steel, concrete, one story and basement, 197x600 feet, slag and Johns Mansville built-up roof, maple, cement, mastie and yellow pine floors, waterproofing, ornamental iron work, bond, rolled steel, fire and tin-clad doors, metal lath (heating, electric, sprinkler, cranes, plumbing railroad tracks reserved), rolled steel sash. Contract awarded to White Const. Co., 48 Madison avenue, New York.

**Bridges (12)**, between Lurgan and Allentown, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. Precast concrete, I beam slab bridges, superstructure. Contract awarded to Bennett & Randall, care of owner.

**Bridge**, No. 358, North of White Oak, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets, Philadelphia. Concrete and steel. Contract awarded to G. W. Ensign, Inc., Harrisburg, Pa.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

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**Club House**, Ardmore, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owners, Club, care of Dr. C. W. Barber, 12 Simpson Road, Ardmore, Pa. Frame and stucco, 1½ stories, 40x60 feet, hot water heat, electric light, shingle roof, pine floors, plumbing. Plans in progress.

**Sales and Service Building**, Bustleton, Pa. Architect, Charles Fries, 8237 D street, Fox Chase, Philadelphia. Owners, R. A. Erwin Motor Co., 1537 Oxford Pike, Philadelphia. Brick, 1 story, 80x100 feet, slag roof, cement floors, electric lighting. Plans about completed. Architect will take bids in two weeks.

**Club House**, 126-28 North Penn street, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, Catholic Literary and Social Union, Mr. Gantert, on premises. Brick, 1 and 3 stories, 60x115 feet, hardwood floors, composition roof, vapor heat, electric light, steel skylights, roof ventilators, waterproofing and damp-proofing. Owner about ready for bids.

**Rectory**, Nesquehoning, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Rev. J. J. Noorolsky, Nesquehoning, Pa. Stucco, 2½ stories, 34x30 feet, shingle roof, pine floors, electric lighting. Plans in progress.

**Residences (12)**, Conshohocken, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owners, Conshohocken Realty Co., care of C. A. Desimoine, secretary, Hector and Fayette streets, Philadelphia. Concrete block, stucco and shingle, 2½ stories, 36x36 feet, hot water heat, electric light,

shingle or asphalt roof, pine floors. Owner taking general bids.

**Residence**, Lansdowne, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owners, Norman Realty Co., 6929 West Chester Pike, Upper Darby, Pa. Frame and stucco, 2½ stories, 28x30 feet, hot water heat, electric light, tile work, metal lath, shingle roof, hardwood and pine floors, garages in basement, cement work. Owner will take sub-bids.

**Residence**, Lansdowne, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, W. E. Orr, 6030 Spruce street, Philadelphia. Cinder block, frame and stucco, 2½ stories, 26x35 feet, hot water heat, electric light, tile work, shingle roof, hardwood and pine floors. Owner will build and is ready for sub-bids.

**Bungalow**, Limerick Square, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, J. F. Otterstetter, Limerick Square, Montgomery County, Pa. Stone, cement block, 1½ stories, 30x46 feet, stained shingle roof, oak floors, hot air heat, electric light, plumbing, pressure water system, Morgan doors, bond. Plans in progress. Owner will take bids.

**Store and Residence**, Packerford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, W. A. Becker, Gay street, Royersford, Pa. Brick, 2 stories, 30x37 feet, steam heat, electric light, Morgan doors, gasoline tanks, bond, slate roof, yellow pine and maple floors, plumbing, pressure water system, metal ceilings and store front. Plans in progress. Owner will take bids.

**Residence**, Spring City, Pa. Architect, J.

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Step Ladders  
Bricklayers' Ladders  
Painters' Ladders  
Rolling Ladders  
Painters' Swing Staging

## LADDERS

Extension Ladders  
Sectional Ladders  
Swinging Stages  
Jacks and Hods

T. C. KREWSON, Manufacturer

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801 and 803 Master Street, Philadelphia



Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, P. H. Tyson, Queen street, Spring City, Pa. Stone and marble, 2½ stories, 32x40 feet, tile roof, oak and tile floors, plumbing, dumb waiters, plate and leaded glass, hot water heat, electric light, Morgan doors, bond. Plans in progress. Owner will take bids.

**Factory**, Lancaster, Pa. Architect, William P. Erisman, Woolworth Building, Lancaster, Pa. Owners, Barry & Zecker Co., 333 East Fulton street, Lancaster, Pa. Cinder block, 1 story, 100x34 feet, composition roof, concrete floors, electric light, rolled steel sash, fire doors. Revised plans in progress. Architect will take bids in one week.

**School (elementary)**, North Queen street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, School Board of Lancaster, K. J. Newell, Administration Building, Prince and Chestnut streets, Lancaster. Brick, cinder block, 2 stories, 204x140 feet, tile and composition roof, hardwood floors, metal lath, tile work, safety treads (heating, plumbing and electric work reserved), roof ventilators, waterproofing and dampproofing, iron stairs, ornamental iron work. Owners taking bids due July 23rd.

## Pennsylvania

### Contracts Awarded

**School (Harcum)**, Bryn Mawr, Pa. Architects, Paul Cret and John F. Harbeson, Otis Building, Philadelphia. Owner, Mrs. Marion Harcum, Harcum School, Bryn Mawr, Pa. Stone, 2½ stories, 40x40 feet, steam heat, electric light, slate roof, composition and yellow pine floors, plumbing, painting and glazing, hardware, bond, iron work. Contract awarded to J. H. Hinkle Co., 2507 South street, Philadelphia.

**Church (add.)**, Mt. Clair, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Michael's Greek Church, Rev. Kossey, Mt. Clair, Pa. Brick, 1 story and basement, 25x31 feet, asbestos shingle roof, pine floors, steam heat, electric light. Contract awarded to F. H. Keiser Co., Pottstown, Pa.

**Factory (add.)**, 506 North Twelfth street, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owners, E. R. Meinig & Co., McKnight street, Reading, Pa. Brick, mill const., 2 stories, 31x60 feet, slag roof, maple floors, heating extension, electric light, rolled steel sash, fire doors. Contract awarded to H. J. Raudenbush, 1324 Perkiomen avenue, Reading.

**Residence**, Wyomissing, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, C. H. Freyberger, Wyomissing, Pa. Brick, 2½ stories, 31x44 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to H. J. Raudenbush, 1324 Perkiomen avenue, Reading, Pa.

**Apartments (4) and Garages (13)**, Reading, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Mr. Rhoades, care of architect. Brick, 3 stories, 20x100 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to W. A. Sharp Const. Co., South Temple, Pa.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Dauphine County, Appli, 2025, Derry and Londonderry Townships, 22,890 feet. Either bituminous course, reinforced concrete or one course reinforced concrete and bituminous macadam penetration method on broken stone base, \$158,872.30. Contract awarded to Stucker Brothers Const. Co., Harrisburg, Pa.

Bucks County, Route 281, Spur, Middletown

Township, 21,878 feet. Bituminous macadam penetration method on reconstructed base course. Contract awarded to James J. Barrett, Olden avenue, Trenton, N. J., \$77,223.05.

**Residence**, Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, R. E. Heikes, Lancaster, Pa. Cinder block and stucco, 2 stories, 30x40 feet, shingle roof, hardwood floors, pipeless heater, electric lighting. Contract awarded to Luther Wohlson, Breneman Building, Lancaster.

## New Jersey Construction News

**Theatre and Store**, Lambertville, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, George L. Eyrk, care of architect. Brick, steel, reinforced concrete, fireproof, 2 stories, 40x72 feet, slag roof, concrete floors, hollow tile, roof ventilators, metal lath, electric light, tile and marble work, hollow metal sash and skylights, fire doors, ornamental iron work. Plans in progress.

**Theatre, Stores and Offices**, Olden and Walnut streets, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, George L. Eyrk, care of architect. Fireproof, steel, reinforced concrete, 3 stories, 125x170 feet, slag and tin roof, hardwood and cement floors, hollow tile, roof ventilators, electric light, metal lath, tile and marble work, hollow metal sash and skylights, fire doors. Plans in progress.

**Warehouse (alts.)**, Fifth and Pine streets, Camden, N. J. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Harry Pinsky Sons & Co., Camden, N. J. Brick, 5 stories and basement, 60x80 feet, slag roof, electric light, heating alterations, carpentry, cement work. Architect ready for general bids.

**Stores (4), Apartments (8)**, Vineland, N. J., \$50,000. Architect, Michael Capobianco, 778 South Seventh street, Philadelphia. Owner, Nicholas De Lemma, 774 South Sixth street, Philadelphia, and Vineland, N. J. Brick, 2 stories, 70x80 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile work, flush bulks. Architect taking bids due as soon as possible.

**Lodge Building and Bank**, North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, I. O. O. F., North Wildwood, N. J. Reinforced concrete and brick, slow burning, slag roof (heating and electric work reserved). Architect is ready for general bids.

**School**, Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board, care of Thomas B. Akatman, North Wildwood, N. J. Reinforced concrete and brick, 3 stories, 170x40 feet, auditorium, 80x50 feet, slag roof, pine, cement and terrazzo floors (electric light, steam heat, plumbing and ventilating separate), hollow metal skylight, ornamental iron work, marble work. Deposit \$10.00. Refund \$5.00. Owner taking bids due July 20th, 7.30 P. M. (daylight saving).

**Store and Apartment**, Glassboro, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Martin Sherwood, care of architect. Brick, 2 stories, 43x43 feet, slag roof, pine floors, steam heat, electric light, store fixtures. Architect taking bids due July 12th.

**Residence**, Trenton, N. J. Architect, Robert Consolloy, Commonwealth Building, Trenton, N. J. Owner, F. W. Consolloy, Washington Market, Trenton, N. J. Hollow tile and stucco, 2½ stories, 18x42 feet, slate roof, hardwood floors, hot water heat, electric light,

metal lath. Architect taking bids due July 12th.

**Office Building**, 509 Cooper street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson street, Camden, N. J. Owners, Remington & Vosbury, Court House Square Building, Camden, N. J. Reinforced concrete, cinder block, stucco and cast stone, 1 story, 43x29 feet, 2 stories, 20x36 feet (heating separate), electric light, metal lath, tile and marble work, rolled steel sash, galvanized iron skylights, tin-covered doors, bond, iron work, slag roof, linoleum, cement and yellow pine floors, roof ventilators. Architect taking bids due July 12th.

**North Wildwood Public School**, Wildwood, N. J. Architects (associate), H. Rex Stackhouse and Donahoe & Fitzmaurice, 1120 Locust street, Philadelphia. Owners, School Board of Wildwood, care of Thomas B. Akatman, North Wildwood. Reinforced concrete and brick, cement and terrazzo floors, 3 stories, 170x40 feet, auditorium, 80x50 feet, slag roof, pine floors (electric lighting, steam heating, plumbing and ventilating reserved), hollow metal skylight, ornamental iron work, marble work. Deposit, \$10.00. Refund, \$5.00. Owners taking bids due July 20th, 7.30 P. M. (daylight saving), at Grammar School, Tenth and Central avenue, North Wildwood, N. J.

## New Jersey

### Contracts Awarded

**School**, Lawrenceville, N. J. Architect, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Board of Education of Lawrenceville, E. H. Pearson, secretary, Lawrenceville, N. J. Brick, steel, 2 stories, 77x120 feet, asbestos shingle and slag roof, yellow pine floors, hollow tile, safety treads, roof ventilators, metal ceilings, waterproofing, dampproofing (heating and ventilating, electric work and plumbing reserved), metal lath, tile work, iron stairs. Contracts awarded to William C. Ehret, 13 West State street, Trenton, \$58,938. Plumbing awarded to Trenton Plumbing & Heating Co., 366 South Broad street, Trenton, \$2786. Electric awarded to George Blair, 311 Ardmore street, Trenton, \$982. Heating and ventilating awarded to Burns, Lane & Richardson, New Brunswick, N. J., \$8,897.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.



(Continued from page 436)

all this and in hearing this great architect! "People ought to know about the success of these things," he said to me. "The ideas and the work out of the plans are so simple. They mean so much. Anyone who will put his mind to it can think of many more. To work a real revolution that will so greatly lower costs doesn't require anything but a little daring to climb out of the old ruts and the application of a little horse sense. The old ways aren't necessarily best, and an agnostic attitude—the 'show me, I'm from Missouri,' point of view—doesn't hurt anyone."

But my thrill over Flagg and his work was like the thrill I had as a child when I read "Huckleberry Finn," and had my first ride in an automobile and saw my first Shaw play at the age of nineteen—oh, yes, I got it too when I made my first long-distance telephone call.

That is the quality of Ernest Flagg and his work.

We still lack housing and there is still unsatisfied demand for industrial building. Some of our schools are deplorably crowded. There is much public work planned which is not done.

In spite of this, there is an incipient lull in construction. Contractors are advising, architects are advising, and the advice is to the point that construction costs are too high to build. Sometimes we get to arguing about all this and we say, "by the law of supply and demand," or by "economic principles," and in trying to be systematic we travel around in meaningless circles.

What is the real point of responsibility for the present situation? The one and only answer is lack of workmen, skilled and unskilled. That is the whole answer all in one short sentence.

Will deferring projects make more mechanics? Hardly, although if it can be carried to a logical conclusion it will string out the work. But the trouble will be that it will not work out well. In a lull, other industries will pick up some of the men, and builders who do not join you in "lulling" will see to it that they get men.

In the meanwhile rents are high and housing scarce. If we had more workmen we could use them very profitably. In Europe, in England, there are building tradesmen who should be filling the temporary gap in our American supply.

The thought of the construction industry must be directed to this point and the voice of the industry must be raised in one long effective howl for such a constructive amendment of immigration laws as will admit building tradesmen to this country. There is little good to the world

in their suffering for work in their own countries while we are suffering for their services over here. Even if we do make a mistake and let in one or two radicals, we probably will not injure their morals by letting them associate with some of our choicest selected "snowballers."

From organized labor's viewpoint it would seem that the entrance of some skillfully selected building tradesmen would be a good thing. As it is now it is the laboring man who is most afflicted by high rents, and when immigrants other than builders come in they take up housing room but they do not produce living room.

A great boatload docks at Ellis Island and shortly is landed in New York. What does this boatload mean? It means a further strain upon that class of housing which is most strained now. How many builders in the whole steerage? Not any so selected on the other side. The selection is on some sort of a Volstead percentage basis.—*American Contractor*.

### TAKE THOUGHT FOR THE FUTURE

At this time almost every contractor is busy, whether he be large or small. How long this happy state of affairs will continue nobody knows, but nearly all authorities agree that there should be plenty of business for the contractor until late fall at least.

Without wishing to pose either as prophets of gloom or wielders of the wet blanket, we do feel that this is the time for a few words of caution. Out of the experience of history men have learned that for every period of activity there will come a corresponding period of inactivity. Are you preparing for it? Everybody knows that the average contractor lives in the present and has little or no thought for the future. He has won that reputation among business men. When times are good and he has plenty of work he is a free spender. Many times he spends all of the expected profit from a job before it is earned and then mortgages the future. The inevitable result is that when the lean times come he is entirely unprepared. He lets his accounts go behind, he curtails his expenses and cuts his organization, forgetting that in a very few months he will be busy again. How much more sensible it would be if he would lay out a budget of his necessary and proper expenses for the year in advance and then lay aside cash or easily convertible securities during his periods of prosperity and then draw on that reserve during the slack period.

The construction business is made up of a succession of hazards; one might al-

most say it is a gamble. Of course that makes it fascinating; but the wise ones don't take the long chances unless they are forced to do so. There is a great deal of pride in doing a big business; in seeing your name in the papers as the successful bidder on a large number of jobs; in buying a great amount of materials and employing a large force of men; but it is not good business unless you are getting a profit from each job. A firm with a large overhead is compelled to do a large volume of work, and sometimes it is very difficult or perhaps impossible to get a great many jobs without shaving your profits below the danger point. It is an axiom of the construction business that just at the time when you have figured a very small profit and must earn it, that very time is when you are likely to encounter a series of bumps which will result in a loss. There is the alternative of keeping the overhead down and figuring only the desirable jobs with the determination to include a profit or go without the job. Unfortunately there are a large number of contractors who cannot bear to wait. They feel that they must be doing some work. Accordingly, they figure work at cost; they figure on getting all the breaks, when they know that that is impossible. The result is always the same. If they are small operators, each new job has to pay for finishing the last, and they dare not stop. If they did they would be bankrupt. Among the larger contractors the reckoning at the end of the year shows that the profits from two or three profitable jobs have had to offset the losses from a number of bad ones, and the net profit is smaller than it would have been if they had loafed half of the year and done only the good jobs.

One of our general contractors, when asked, in the late fall of 1921, if he was busy, replied, "I have just taken two good-sized mill jobs. All through spring and summer I sat around and watched my competitors breaking their necks and shortening their lives with worry trying to do a lot of work and eke out a meager profit. I shall make more money in the next four months than they did during the entire year."

Do you want to be a big fellow and worry yourself into an early grave, or will you be satisfied with less blaring of trumpets and a sure and comfortable income? Think it over.—*The Associated Contractor*.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.



## Official Figures Showing in Detail the Constructive Activity of the First Six Months of 1923

New Buildings Erected from January 1 to June 30, 1923

	Jan.	Feb.	March.	April.	May.	June.	Operations.	Estim'd Cost.
Places of Amusement.....	1	..	1	1	..	1	4	\$375.00
Churches .....	..	..	..	..	1	1	2	275,000
Dwellings, one-story .....	..	1	1	....	2	3	7	20,400
"    two-story .....	220	597	1356	1539	824	356	4,892	25,530,830
"    three-story .....	7	28	105	43	31	36	250	3,323,725
"    frame .....	4	7	12	55	16	35	129	641,675
Banks .....	1	1	..	1	3	1	7	427,000
Clubs .....	..	..	..	2	1	..	3	610,185
Charitable Institutions .....	..	..	..	..	1	..	1	18,000
Engine and Boiler Houses.....	2	..	..	..	2	1	5	89,400
Garages .....	90	74	180	280	233	268	1,125	2,213,060
Halls .....	..	1	..	..	..	1	2	170,000
Hotels .....	..	1	1	1	..	1	4	4,868,565
Manufactories .....	12	8	9	7	5	8	49	4,312,600
Municipal Buildings .....	1	..	..	..	1	..	2	107,175
Miscellaneous Buildings .....	15	9	21	25	15	13	98	.. 120,890
Office Buildings .....	2	7	6	6	6	2	29	8,070,200
Parish Buildings .....	..	..	1	..	..	..	1	140,000
Power Houses .....	1	1	..	..	1	..	3	137,500
Schools .....	..	..	2	4	2	2	10	4,794,755
Stables .....	1	..	3	..	..	2	6	101,800
Stores .....	2	1	8	6	8	5	30	1,532,600
Tenement Houses .....	4	15	15	22	2	4	62	3,436,840
Warehouses .....	6	5	4	1	3	2	21	1,212,750
Workshops .....	7	3	9	10	10	10	49	210,530
Total New Buildings.....	376	759	1734	2003	1167	752	6,791	\$62,740,480
Additions .....	123	122	257	281	351	311	1,445	8,546,175
Alterations and Repairs.....	294	277	426	475	515	456	2,443	2,895,065
Grand Total .....							10,679	\$74,181,720
Fire Escapes .....							74	43,680
Heaters .....							50	52,695
Signs .....							237	86,450
Miscellaneous Work .....							865	252,750
Total Work of All Kinds.....							11,905	\$74,617,295

## TWO-STORY DWELLINGS—Including Two-story Stores and Dwellings.

Wards.	2	3	21	22	23	24	25	26	27	28	29	31	33	34	35	36	38	39	40	41	42	43	44	45	46	Tot.	
Jan.	...	...	9	1	12	...	...	9	...	...	...	15	69	6	...	...	...	...	52	2	42	...	...	...	3	...	220
Feb.	...	...	...	66	39	...	...	10	...	60	...	9	39	15	42	1	...	...	25	7	202	...	...	...	...	82	597
March	1	1	4	82	118	29	...	...	...	...	...	...	218	14	...	1	9	253	51	560	1	1	3	10	1356		
April	...	...	9	230	233	...	21	108	...	7	...	1	26	33	49	76	9	49	31	75	535	...	11	36	...	1539	
May	...	...	...	40	24	...	...	...	...	...	...	...	108	37	...	70	...	133	83	294	...	...	...	12	1	824	
June	...	...	...	...	...	...	...	40	1	...	...	...	23	1	15	...	...	...	84	39	94	...	...	...	6	...	356
Tota's.	2	1	44	448	449	29	21	157	11	7	60	1	73	467	136	118	81	58	578	257	1727	1	12	60	93	4892	

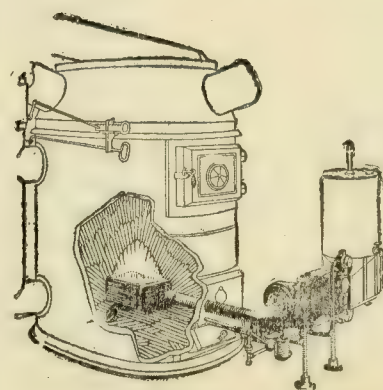
## THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings.

Wards.	2	3	7	8	11	19	21	22	23	25	34	35	38	41	42	43	46	48	Totals.
Jan.	..	..	..	..	..	..	..	3	3	..	..	..	..	..	1	..	..	..	7
Feb.	..	..	..	..	..	..	2	9	10	..	..	..	3	..	2	..	2	..	28
March	..	..	..	20	..	1	2	39	2	..	22	16	1	..	2	..	..	..	105
April	..	..	..	1	..	..	1	17	1	..	1	3	6	..	3	10	..	..	43
May	..	1	2	..	1	1	3	7	..	1	4	4	1	..	6	..	..	..	31
June	..	..	..	..	..	..	..	6	..	..	2	3	16	1	7	..	1	..	36
Totals..	1	2	1	20	1	2	8	81	16	1	29	26	27	1	21	10	2	1	250

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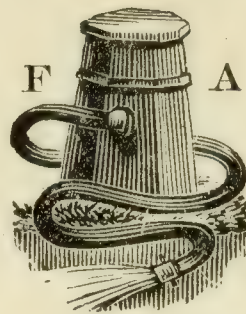
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Loans and Investments.....	\$46,366,330.33
Banking House and Office Building.....	1,500,000.00
Liability under Letters of Credit.....	13,580.94
Interest Earned Uncollected.....	252,414.96
Due from Banks.....	13,321,226.44
Cash and Reserve.....	5,677,308.35
Exchange for Clearing House.....	3,656,264.41

\$70,787,125.43

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Capital .....	\$ 2,000,000.00
Surplus .....	4,500,000.00
Undivided Profits .....	998,256.16
Reserved for Taxes, etc. ....	134,939.54
Discount and Interest Unearned.....	170,139.10
Letters of Credit .....	13,580.94
Deposits .....	62,970,209.69

\$70,787,125.43

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Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

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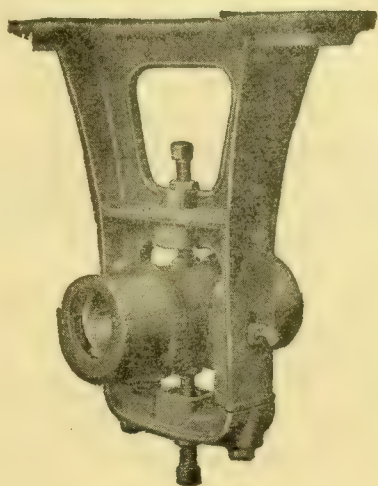
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 29

July 18, 1923

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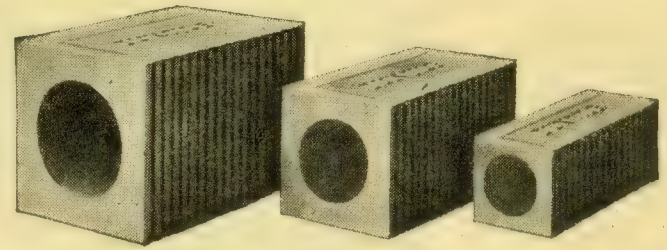
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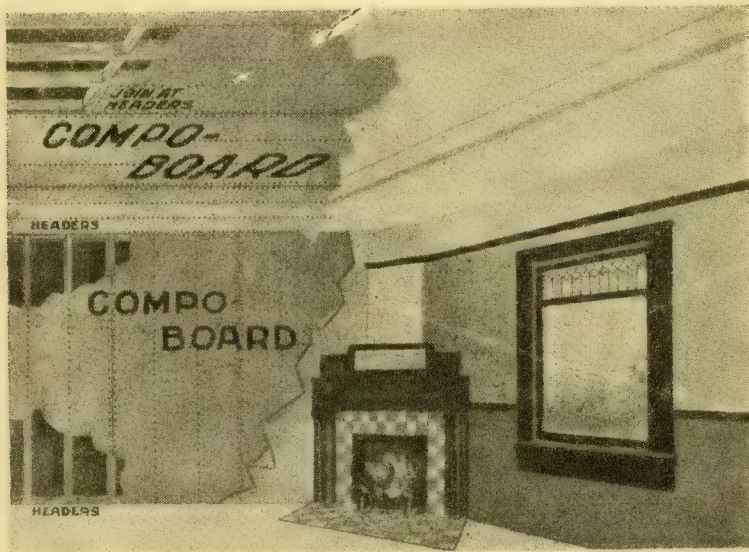
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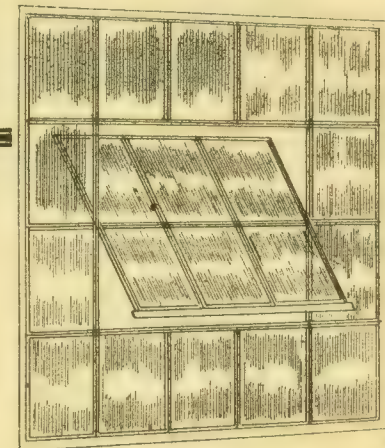
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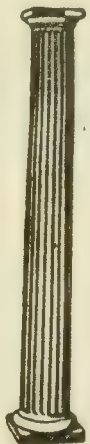
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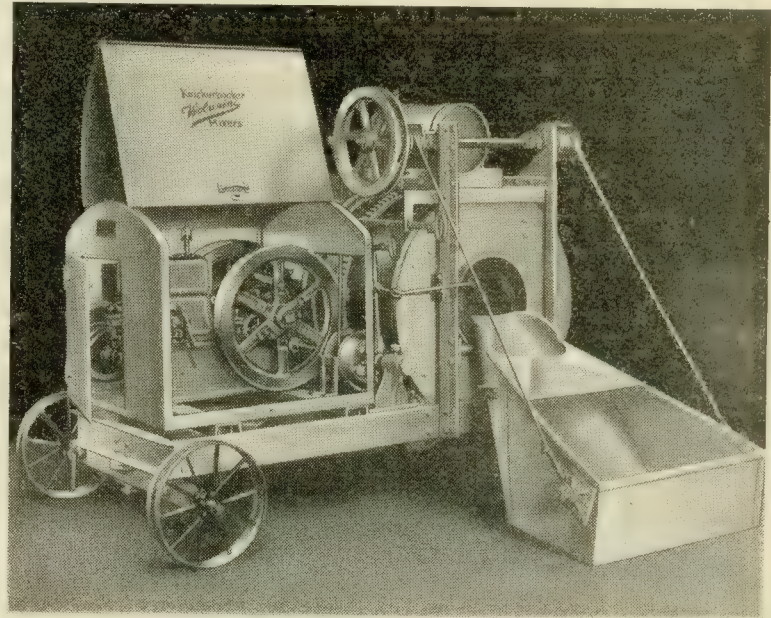
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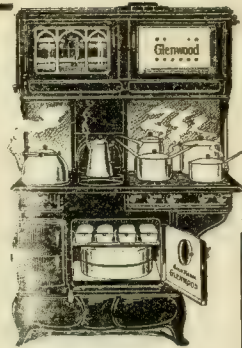


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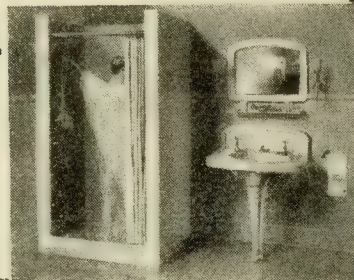


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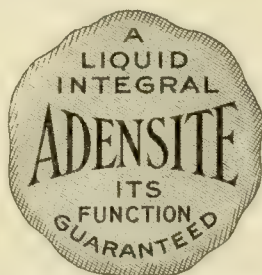
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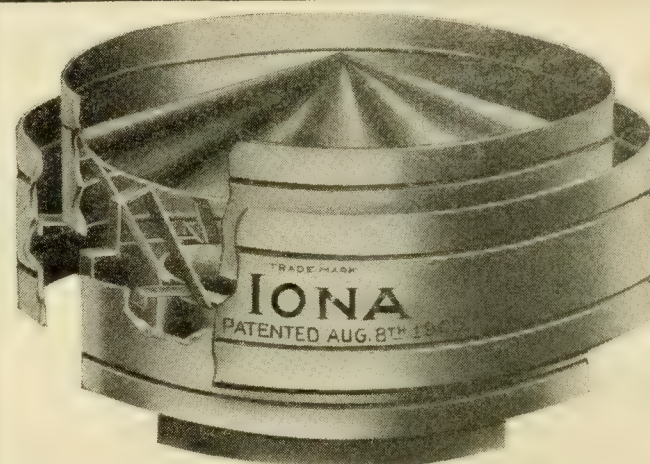
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 29

PHILADELPHIA  
July 18, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### EXTRAS! EXTRAS!

By GEORGE A. CHAPMAN, A. I. A.

*Secretary-Treasurer*

The Architects' Small House Service  
Bureau of the United States, Inc.

**E**XTRAS, extras. If you have built a home you probably know what extras mean, not only in added expense but in delays, discussions, disagreements and disappointments.

If you haven't built a home but are planning to do so, look out for extras, if you don't want your home to cost more than you expected.

Probably no part of home building is more exasperating or disappointing than the "extras" to a man of modest means, who often cannot afford to have his home run two or three hundred dollars above the sum set aside for the venture.

Sometimes the home builder feels that the architect has wilfully misled him as to the amount of money necessary to build his home because it is only human to lay the blame on some other head than our own.

### *Keeping Down the Extras*

Sometimes the home builder will bitterly blame the contractor for the extras. It will seem to him as if the contractor who appeared at the start as a fine fellow has suddenly turned into a modern pirate; that he seems bound and determined to make up all possible losses on the job by including them in the exorbitant charge

for the apparently simple little changes and additions the home builder wants made at the last minute.

The above is about the average home builder's viewpoint, but let's see how the average architect and builder look on "extras" and see if there is not some way to keep down building costs by cutting out the extras.

The architect and contractor are quite as much opposed to the so-called "extras" as is the owner. To them extras are a great nuisance. And the additional money cannot make up for the waste, lost time and worry incurred. We are discussing, of course, only thoroughly reliable, honest building.

### *Why Extras Cost Money*

The architect can't quite see why the owner—and this includes Mrs. Owner—cannot make up his mind as to what he—or she—wants and "stick to it."

Changes—changes—changes. Perhaps Mr. and Mrs. Owner, out calling some night, find they like the stairway in their friend's house better than the one designed for their new home. Or Mrs. Owner may wake up some morning with the decision that she "never can get along with just one closet in the front bedroom." So they call on the architect, or the contractor and request the change to be made.

If the house design has been made this will mean new or revised drawings. If

the house is under way, the architect must see how the change will affect all of the correlated parts of the work, such as, the plumbing, heating, electric work etc., which are usually let under separate contracts.

Sometimes an architect plans a house once, but owing to the owner's changeableness, he does enough work to cover the designing of two houses. The added cost for all this work on a commission basis, seldom, if ever, compensates him for the actual additional work. Really, Mr. Owner can frequently "run Mr. Architect ragged," with changes and alterations.

The contractor is in much the same boat when it comes to changes, which, in the main, as I have said are the greatest causes for "extras."

He is delayed waiting for new drawings—orders for materials already placed must be countermanded—new and different materials must be obtained—which all mean delay—delay. And when he has a force of bricklayers, carpenters, plasterers electricians and other specialized workmen at today's top-notch wages, waiting around for work, you can imagine that such delays cause him sleepless nights. His whole building program has been disrupted.

### *You Must Pay the Bills*

If special millwork or other specially manufactured parts are already complet-

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ed, a change may mean a complete loss of the finished work, because the mill or manufacturer will expect to be paid for it.

You may be sure that you will be the fellow that, in the end will have to foot the bill. The contractor may realize full well that you, Mr. Owner, will think he is an accomplished robber, a regular Jesse James, holding you up with a bill instead of a gun, but what can he do about it? He is in business to make a legitimate profit, as everyone is—and just to be a good fellow, he simply cannot pay out his own hard-earned money for changes that you order—too late.

Is it possible to eliminate the "extras?"

It can be done away with just like any other nuisance, provided that the three most interested parties in every building operation, that is, the owner, the architect, and the builder, set themselves definitely and in a logical way so to do, and provided that all three are honest in intention and deed.

Also each one must function in his own definite sphere. Let the owner own; the architect design and specify; and the builder build. Don't butt in on the other fellow's job.

Let's get down to fundamentals—let's analyze the situation.

First: What is a contract?

Briefly, a contract, so far as it applies to building, is an agreement between an owner and a builder wherein the builder agrees to furnish all of the labor and material (no more or no less shown) on the plans and described in the specification prepared for a certain building and for which the owner agreed to pay a definite sum (no more or no less).

Second: What is an "extra?"

(a) An extra is the performing of labor or the furnishing of materials (or both jointly) in excess of that definitely stipulated in the contract.

(b) An extra (or a credit) is involved when a change is made in either the quantity or quality of the labor and materials as originally contracted for. Errors in the plans and specifications quite frequently cause "extras" or ("credits").

(c) There are in addition to the above certain provisions in all contracts as to "extras" which are conditioned upon possible circumstances outside the control of either parties to the contract, such as accidents, fires, cyclones, strikes, etc., which, since they are remote and do not ordinarily affect the contract, may be left out of the discussion.

Third: What will eliminate "extras?"

(a) Complete harmony and co-operation of owner, architect and builder, each acting in accordance with the contract agreement within his prescribed field.

(b) Duties of the owner.

1. Determine as definitely as possible the general requirements and details of

the building to be designed and transmit these instructions to the architect in an intelligible manner.

Remember that the architect is not a mind reader.

When the sketches, working drawings and specifications are submitted for approval, be sure you understand them thoroughly.

It is not evidence of "lack of culture or education" to admit inability to read plans and details (architectural drawings) or interpret the technical terminology of specifications.

The architect can always illustrate and explain points in doubt.

2. Arrive, with the advice of the architect, at the maximum amount to be spent and eliminate if need be extravagances and non-essentials until a building of good construction and design is arrived at within your means.

The architect will assist in simplifying your desires to fit your pocket book.

Most owners collect more and conflicting ideas—which they set down as necessities—than can ordinarily be included under a single roof.

3. Give the architect sufficient time to prepare complete plans and specifications.

"Rome wasn't built in a day."

Remember that the architect must first build your home on paper before the builder can estimate upon or build from his plans and specifications.

4. Insist on complete, definite proposals based on the complete house including the plumbing, heating and electrical work.

To the sum total of these, add for such incidentals as are not usually included, such as light fixtures, decorating, shades, draperies, furniture, rugs, grading, walks and drives, planting, etc., and see your finish before you start.

With the advice and assistance of your architect, invite only those contractors to submit proposals who are competent and honest and have definitely demonstrated their ability to build the kind of building you have in mind.

Don't let the incompetents, and their name is legion, even submit estimates—you simply "can't get water out of a stone."

"Hand pick your contractors before you take estimates and then you are safe in awarding contracts to the lowest bidders—those really entitled to the work.

5. Having signed contracts with the various contractors, give no orders or directions to them.

All these must be transmitted through the architect who, as executive in charge of the work, will know at once whether such suggestions involve extra work and material, and thus you will be fully ad-

(Continued on Page 462)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Tennant House**, Germantown, Pa. Architect, J. L. Connaroe, 225 South Sydenham streets, Philadelphia. Owner, name withheld. Concrete block and stucco, 1 story, 30x40 feet, hot water heat, electric light, slate roof, pine floors. Preliminary sketches in progress.

**Church**, Seventh street and Northeast Boulevard, Philadelphia. Architect, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. W. C. Sandt, 5203 North Carlisle street, Philadelphia. Stone and cast-iron, slate and slag roof, cement and pine floors, steam heat, electric lighting, iron work, terra cotta. Revised plans in progress.

**Residence (alts.)**, 330 South Nineteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Mrs. Norris Barrett, on premises. General alterations. Plans in progress.

**Residences (8) and Stores, Residence and Garage (2)**, Third and Lindley avenue. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x65 feet, hot water heat, electric light, slag and tin roof, hardwood and pine floors, tile work, garages in basement. Ready for sub-bids in a few days.

**Garages (34)**, Third and Lindley avenue, Philadelphia. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, name withheld. Brick, 1 story, 8 feet 6 inches x 16 feet, heating not decided, electric light, slag roof, cement floors. Ready for sub-bids in a few days.

**Residence and Garage**, South side City Line, East of Sixty-sixth street, \$16,500. Architects, William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, name withheld. Brick, 3 stories, 36x46 feet, hardwood, pine and cement floors, hot water heat, electric light, tile work. Architects will build.

**Storage Shed**, Nineteenth and Clearfield sts., Philadelphia, \$5,500. Architect, R. R. Neely and E. William Martin, 2301 Spruce st., Philadelphia. Owners, Sawdust Sales Co., Nineteenth and Clearfield streets, Philadelphia. Corrugated iron, 1 story, 114x70 feet, corrugated iron roof. Owner will build.

**Residences (32)**, Thirty-fourth and Sansom streets; **Residence (1)**, Thirty-fourth and

Walnut streets. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, C. Yarnall Abbott, Broad and Race streets, Philadelphia. Stuccoed, general renovations, hot water heating, electric lighting, hardwood floors, tile and marble work. Architect taking bids due July 23rd.

**Apartments and Store**, Wayne and Cheltenham avenues, Philadelphia, \$100,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Irving King, care of architect. Limestone and terra cotta, brick, stone, steel, concrete, 12 stories, 200x100 feet, steam heat, electric light, metal lath, tile and marble work, fire doors, iron work, slag roof, hardwood floors, elevators, roof ventilators. Architect taking bids due July 20th.

**Palm Theatre (alts.)**, Frankford avenue and Norris streets, Philadelphia. Architect, private plans. Owners, Palm Theatre, on premises. Masonry, carpentry, metal lath, plastering, marble and tile, structural steel, ornamental iron heating and electric alterations (painting, electric fixtures, carpets and hangings, electric sign reserved). Owner taking bids due July 19th.

**Residence**, Sedgwick and Crittenden streets, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, William Kommer, 6333 Stenton avenue, Philadelphia. Stone, 2½ stories, 50x104 feet, slate roof, oak and yellow pine floors, electric lighting, tile work, iron work. Architect taking bids due July 19th.

**Bank Building**, Frankford avenue and Unity street, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Frankford Trust Co., 4344 Frankford avenue, Philadelphia. Brick, cut stone, steel, 1 story and mezzanine and third floor, 114x70 feet, built-up asbestos, cement, pine, cork tile floors, hollow tile, metal lath, tile, marble and terrazzo, bond (plumbing, heat, ventilating, dampproofing, dumb waiters reserved). Architect taking bids due July 28th.

**Office and Storage Building**, Sixth and Washington Square, Philadelphia. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Lea & Febiger, 706 Sansom street, Philadelphia. Stone and brick, 3 stories and basement, 50x90 feet, built-up

roof, concrete floors, freight elevator, fire doors, marble work, vapor heat, electric lighting. Architect taking bids due July 19th.

**Neighborhood Shop (alts. and add.)**, 110 South Farragut Terrace. Architects, Bieber & Martin, Otis Building, Philadelphia. Owners, Miss E. W. Hooper and Miss S. K. Murphy, on premises. Hardware, painting, show windows, oak floors, carpentry and mill work. Architect taking bids due as soon as possible.

**Foundations for Incinerator**, Philadelphia. Architect, private plans. Owners, Department of Public Welfare, Bureau of Highway, F. H. Craven, 216 City Hall. Only bidder, George Dobbins, 1020 South Forty-seventh street, Philadelphia, \$30,793.

**Residences (28)**, Berks street, Fifty-second to Fifty-third, Philadelphia, \$325,000. Architect, private plans. Owners, Wolf & Schwartz, 39 South Thirteenth street, Philadelphia. Brick, 2 stories, 16x33 feet, 20x15 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will build.

**Residences (28)**, Nineteenth, Widener Terrace and Ogontz avenue, \$196,000. Architect, private plans. Owner, Frank J. Peters, 2045 Stenton avenue, Philadelphia. Brick, 2 stories, (1) 16x42 feet, (27) 16x31 feet, 12x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (51)**, Fifty-second, Lebanon avenue, Berks street and Arlington Road, Philadelphia, \$409,200. Owner, Henry Goldstein, Fifty-second and Lebanon avenue, Philadelphia. Brick, 2 stories, (43) 16x31 feet, 12x10 feet, (8) 16x42 feet, hardwood and pine floors, electric lighting, tile work. Owner will build.

**Garage**, 6212-26 Germantown avenue, Philadelphia, \$35,000. **Residence**, 6218 Germantown avenue, Philadelphia, \$3,500. Architect, private plans. Owner, M. S. Kirschner, 4930 Brown street, Philadelphia. Garage, brick, 1 story, 405x56 feet, cement floors, slag roof. Residence, brick, 2 stories, 16x25 feet, 13x10 feet, slag roof, hot water heat, electric light. Owner will build.

**Garage, Service Station and Storage Building**, Fifty-eighth and Gibson avenue, \$29,000. Architect, private plans. Owners, Gulf Refining Co., Pittsburgh, Pa. Iron, 1 story, 70x144 feet and 40x100 feet, concrete work, electric lighting. Owner will build.

**Residences (11)**, Seventeenth and Ruscomb streets, Philadelphia, \$89,500. Architect, private plans. Owner, A. Goldstein, 720 Porter street, Philadelphia. Brick, 2 stories, 16x30 feet, 11x17 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, South side Van Kirk street, West of Reach street, \$12,000. Architect, private plans. Owner, Charles Weideman, 5820 Reach street, Philadelphia. Brick and stucco, 2 stories, 33x48 feet, 20x10 feet,

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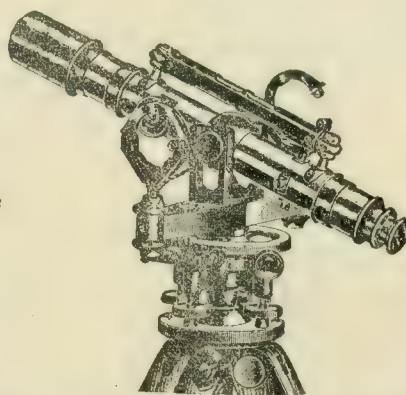
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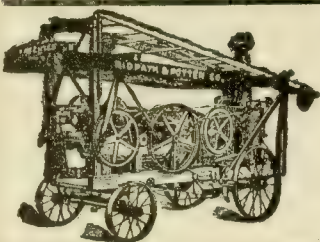
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hardwood and pine floors, electric lighting, tile work. Owner will build.

**Store and Office**, 7149 Germantown avenue, Philadelphia, \$10,000. Architect, private plans. Owner, A. S. Tourison, Jr., 7014 Boyer street, Philadelphia. Brick, 2 stories, 25x30x31 feet, slag roof, electric lighting, store fixtures. Owner will build.

**Residences (40)**, East and West side Homer street, North of Washington Lane, Philadelphia, \$6,000 each. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, Southeast Corner Castor Road and Fountain street, \$6,000. Architect, private plans. Owner, W. E. Shefler, 706 South Fifty-eighth street, Philadelphia. Frame, 1 story, 20x38 feet, hardwood floors, electric light. Owner will build.

**Residence and Garage**, Southwest Corner Angora and Thomas avenue, \$5,900. Architect, private plans. Owner, J. N. Massey, 5311 Race street, Philadelphia. Brick, 2 stories, 26x32 feet, 10x18 feet, garage, brick, 1 story, hardwood, pine and cement floors, electric light. Owner will build.

**Residence**, West side Woodlawn avenue, North of Robbins avenue, \$5,000. Architect, private plans. Owners, H. S. and S. E. Slack, 6311 Woodlawn avenue, Philadelphia. Frame, 2 stories, 28x41 feet, hardwood and pine floors, electric lighting. Owner will build.

**Residence**, Southeast Corner Princeton avenue and Charles street, Philadelphia, \$4,200. Architect, private plans. Owner, John B. Connor, 602 East Indiana avenue, Philadelphia. Brick, 2 stories, 15 feet 4 inches x 42 feet 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence and Store (add.)**, 4933 North Fifth street, Philadelphia, \$4,500. Architect, private plans. Owner, Mary Braening, Southwest Corner Sixty-fifth and Cheltenham avenue, Philadelphia. Brick, 2 stories, 13x5½ feet, and 1 story, 10x6½ feet, slag roof, electric work. Owner will build.

**Residence**, West side Glenlock street, South of Longshore, \$4,000. Architect, private plans. Owner, William V. Hansbury, 6606 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, electric light, hot water heat. Owner will build.

**Residences (2)**, South side Gowen avenue, East of Philadelphia and Reading Railroad, \$2,500 each. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, care of architect. Brick, 2 stories, 16x17 feet. Architect will build.

**Residence**, 8513 Albertson avenue, Philadelphia, \$4,000. Architect, private plans. Owner, B. Napper, 8513 Albertson avenue, Philadelphia. Brick, 2 stories, 16x40 feet, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**Residence (alts.)**, 1727 Spruce street, Philadelphia, \$2,000. Architect, private plans. Owner, Dr. Harry Shoemaker, on premises. General alterations. Owner will build.

**Bridge**, South street over Schuylkill River, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Surveys, 216 City Hall. Rail in east approach and conduit connections to South Street Bridge. Low bidder: M. J. McHugh, 892 North Markoe street, Philadelphia, \$9,995.

**Residence (alts. and add.)**, 100 Nippon street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Architect taking bids due as soon as possible.

**Residences (2)**, Northeast and Southeast Corners Bustleton Pike and Hellerman street, \$6,000 each. Architect, private plans. Owner, Adam Forepaugh, Bustleton Pike and Boulevard, Philadelphia. Brick, 2 stories, 25x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Garage**, West side Leiper street, South of Dyre street, Philadelphia, \$5,000. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 1 story, 18x150 feet, slag roof, cement floor, electric work. Owners will build.

**Durham Park**, Forty-fourth Ward. Constructing fence, replacing damaged concrete footway pavement with granolithic finish, treating soil, supplying and spreading top soil, seeding and planting. Bids exceeded appropriation. All bids rejected.

**Recreation Center**, Cheltenham, Wister street, Wynecote avenue, Twenty-second Ward, Philadelphia. Grading, soil treatment, constructing tile and concrete walks, steps and pavements around monument, concrete curbs, posts, concrete foundation for monument, concrete pavement with granolithic finish and sodding. No bids received.

**Residences (32)**, Marvine, North of Grange avenue, Philadelphia. Architect, private plans. Owners, Clark & Gerlach, 258 South Sixtieth street, Philadelphia. Brick, 2 stories, 16x68 feet, hot water heat, electric light, slag roof, hardwood floors. Owner taking sub-bids due as soon as possible.

**Garages (3)**, South side Chestnut street, West of Fifty-fifth, \$13,400. Architect, private plans. Owner, Charles L. Vetter, 5534 Chestnut street, Philadelphia. Brick, 1 story, 90x20 feet; 117x32 feet and 108x36 feet, slag

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roof, cement floors, electric work. Owner will build.

**Garage**, Northwest Corner August and Scattergood streets, \$2,500. Architect, private plans. Owner, Grover C. Irwin, 5315 Eadom street, Philadelphia. Brick, 1 story,

42x18 feet, slag roof, cement floors, electric lighting. Owner will build.

**Garage**, 5546 Ridge avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Harry Z. Will, on premises. Brick, 1 story, 20x19½ feet, slag roof, cement floors. Owner will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Residence**, 2212 Delancey street, Philadelphia. Architect, private plans. Owner, A. G. Rosengarten, on premises. Plastering, carpentry and mill work, painting and glazing. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Residence**, West side Second street, South of Fishers avenue, \$8,000. Architect, private plans. Owner, V. A. Harris, 423 West Cheltenham avenue, Philadelphia. Brick, 2 stories, 15x40 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to H. Melcher, 1117 Roy street, Philadelphia.

**Residence (alts.)**, 6632 Torresdale avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Dr. Wallace M. Martin, 6637 Torresdale avenue, Philadelphia. General alterations. Contract awarded to H. Phillips, Rawle street, Tacony, Philadelphia.

**Residence and Store (alts.)**, 611-13 South street, \$2,000. Architect, private plans. Owner, Mr. Berkowitz, 611 South street, Philadelphia. General alterations, store fixtures, carpentry. Contract awarded to Basch & Co., Ruan and Tackawanna streets.

**School (alts. and add.)**, Marcus Hook, Seventh and aMarket Sts., Marcus Hook, Pa. Architect, Wallace E. Hance, 2301 Spruce St., Philadelphia. Owners, School Board of Marcus Hook, J. H. Ottey, president, Marcus Hook, Pa. Owner taking bids due July 17th, 7.30 P. M. (standard time). Deposit, \$25. Refund, \$15.

**Bank Building**, 3961 Lancaster avenue, Philadelphia, \$125,000. Architect, Charles H. Furster, Jr., 1542 North Twenty-ninth street. Owners, Lancaster Avenue Title & Trust Co., care of architect, W. Cameron, treasurer. Stone, brick, concrete, precious stone, cut stone, structural steel, miscellaneous, iron work, vault doors, marble work, metal lath, fire doors, 1 story, 35x42 feet, 26x42 feet, irregular, waterproofing, steam heat, electric light, ventilators, rolled steel skylights, linoleum. Contract awarded W. P. Cameron, Witherspoon Building, Philadelphia.

**School and Chapel (add.)**, Almond street, near Thompson street, Philadelphia, \$164,490.

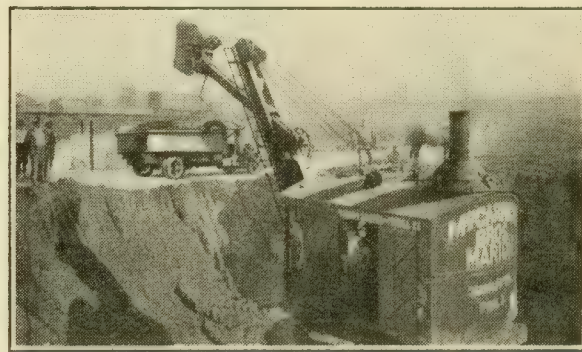
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Architect, Louis H. Giele, 1123 Broadway, New York City. Owners, St. John Cantius, Right Rev. Monsignor M. A. Kopytkiewicz, Thompson street above Orthodox street, Philadelphia. Brick, 2 stories, 134x140 feet, slate roof, maple floors, tile work. Contract awarded to W. L. and G. H. O'Shea, 29 Broadway, New York.

**Recreation Building**, Berks and Blair streets, Philadelphia, \$75,000. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Barclay Warburton, Director, 595 City Hall. Reinforced concrete, brick, cut stone, limestone and steel, 2 stories, 61x33 feet and 52x37 feet, slag and tin roof, cement, maple and pine floors, hollow tile, metal ceilings, dampproofing, iron work, bond, hollow metal sash, metal lath (heating, electric work and plumbing separate bids). Contract awarded to Bowden Const. Co., 1935 Chestnut street, Philadelphia.

**Sales and Service Building (alts. and add.)**, Twenty-ninth and York streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Walter Price, on premises. Brick, concrete and steel, 1 story, 81x50 feet, slag roof, cement floors, plumbing, rolled steel sash and doors, iron work, floors hardener, cold water painting. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Store, Dwelling and Garage**, 2020 North Front street and 2017 North Hope street. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Louis Richman, care of architect. Brick, 3 stories, 18x120 feet, 16x30 feet, demolition, slag roof, hot water heating, electric lighting, slag roof, yellow pine and hardwood floors, tile and marble work, metal lath, metal ceilings, hollow metal skylights, fire doors, bond, metal bulks. Contract awarded to Dickison Const.



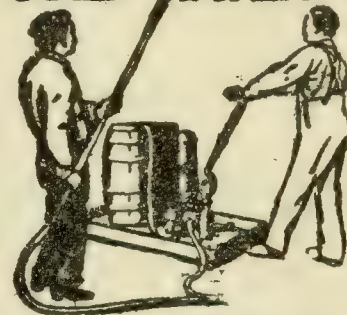
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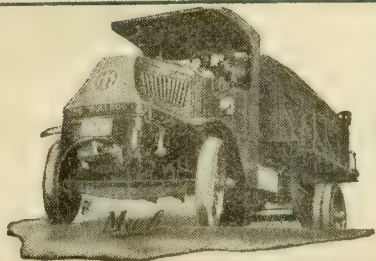
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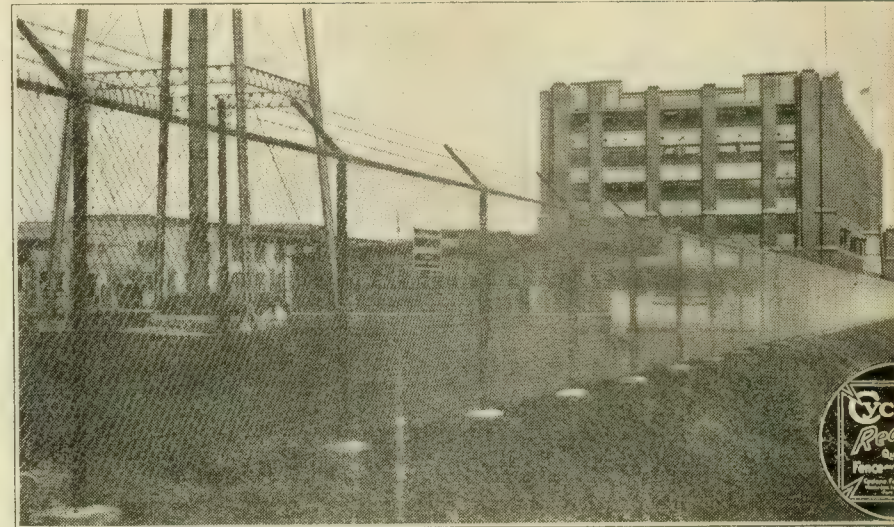
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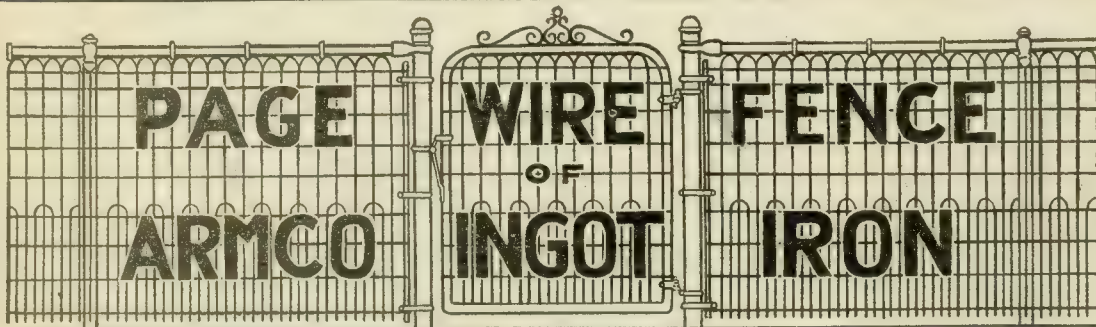
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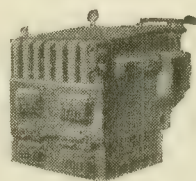
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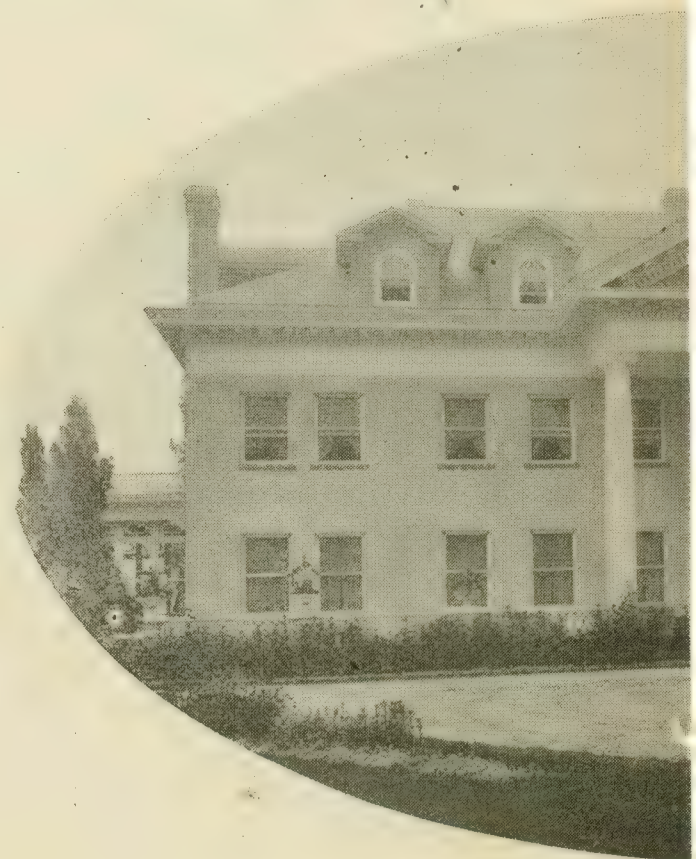
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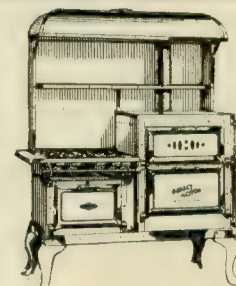
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**Poultry Building**, Southwest Corner Delaware avenue and Mifflin street, \$125,000. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, Risser & Rabinowitz, 101 Pine street, Philadelphia. Brick, 3 stories, 100x180x206 feet, slag roof, cement floors, steam heat, electric work, steel sash, (2) elevators. Contract awarded to Barclay White Co., 1713 Sansom street.

**Church (alts.)**, Northeast Corner Germantown avenue and High street, \$14,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, First Methodist Episcopal Church, on premises. Cabinet work. Contract awarded to R. M. Peterson & Son, 6 Queen Lane, Philadelphia.

**Store and Storage (add.)**, Southwest Corner Eighteenth and Sansom streets, \$9,000. Architect, Robert W. Pollock, 8 South Hicks street, Philadelphia. Owner, W. J. O'Brien, 1033 Walnut street, Philadelphia. Limestone front, brick, 2 stories, 18x18 feet, slag roof, hardwood floors, general alterations. Contract awarded to Farrell-Roth Co., 1615 Spruce St., Philadelphia.

**Shelter Building (2)**, Holmesburg, Pa. Architect, J. B. P. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Home for the Indigent, Room 592, Department of Public Welfare, Bureau of Charities and Correction, Philadelphia. Concrete foundations, floors and posts, frame construction, asbestos shingles. Contract awarded to I. S. Kauf-

man, North American Building, Philadelphia.

**School (alts. and add.)**, 2020 Stelle street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Assoc. Talmed Torahs of Philadelphia, care of architect. Brick, 2 stories, 20x80 feet, rearranging partitions, plumbing. Contract awarded to Charles Litman, 2238 South Fourth street, Philadelphia.

**Alterations**, 4330 Frankford avenue, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, A. H. Bennett, on premises. New bulk windows, carpentry and mill work. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

**Alterations**, 2541 Collins street, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, Joseph Stein, on premises. Carpentry and mill work, painting and glazing, plastering. Contract awarded to Robert Hepner, 618 South Eighth street, Philadelphia.

**Residence and Store (alts.)**, Northwest Corner Fiftieth and Parrish streets, \$5,000. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. General alterations. Contract awarded to Dickinson Const. Co., 1120 Dickinson street.

**Recreation Center**, Old York Road, Brown street, Fischer and Somerville avenue, Forty-second Ward, Philadelphia, \$23,508.09. Grading, treating soil, concrete street, footway

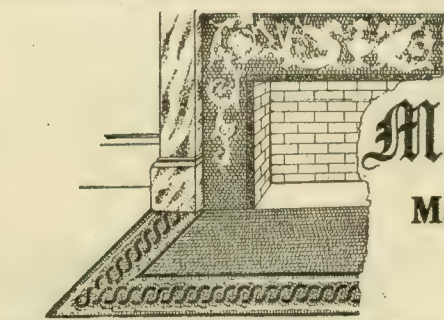
paving, concrete walks, concrete steps, concrete street curbs, sowing, sodding and miscellaneous planting. Contract awarded to Beam Craven Co., 605 Market street, Philadelphia.

**Garages (7)**, Collom and Rubican street, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, care of architect. Brick and stone, 1 story, 8x16 feet, slag roof, cement floors, electric light, metal partitions, concrete foundations, drainage. Contract awarded Lombardi Co., care of architect.

**School and Garage (add.)**, Overbrook avenue, Philadelphia. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Mrs. Clyde A. Heller, 6471 Overbrook avenue, Philadelphia. Brick and stone, 1 story, 21x32 feet. Contract awarded to Milton W. Young, 2037 North Sixty-third street, Philadelphia.

**Residence (alts.)**, 2429 Frankford avenue, Philadelphia. Architect, H. Child Hodgkins, 130 South Fifteenth street, Philadelphia. Owner, Quintus Hoch, on premises. Brick, 2 stories, 24x29 feet, heating and lighting extensions, plumbing. Contract awarded to Thomas Strachan, 5108 Hadfield street, Philadelphia.

**Residence and Garage**, West side Wayne avenue and Arbutus street, \$12,300. Architect, private plans. Owner, M. Seltzer, 739 Boardwalk, Atlantic City, N. J. Brick, 2½



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stories, 35x29 feet, hardwood, pine and cement floors, tile work, electric work, garage, 1 story 10x20 feet. Contract awarded to E. T. Myers, Atlantic City, N. J.

**Foot Bridge**, West side Mascher street, South of Westmoreland, \$6,000. Architect, private plans. Owners, Philadelphia Tapestry Co., Mascher street and Allegheny avenue. Steel, 50-foot span. Contract awarded to William Steel & Sons Co., 219 North Broad street.

**Residence**, North side Fry street, West of Shalkop, Philadelphia, \$6,000. Architect, private plans. Owner, T. A. Dunn, 7100 Ridge avenue, Philadelphia. Frame, 2 stories, 28x22 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to G. H. Yarnall, 749 Manatauna street, Philadelphia.

**Two-Family Residence (alts. and add.)**, Southeast Corner Fourth and Christian, \$6,500. Architect, private plans. Owners, Dubin Brothers, 515 Porter street, Philadelphia. Brick, 3 stories add., 9x21½ feet, general alterations. Contract awarded to Negin & Kynean, 2440 South Reese street, Philadelphia.

**Residence**, Northeast Corner Grant and Evans streets, Philadelphia, \$10,000. Architect, private plans. Owner, John Bowinski, Blue Grass Road, Bustleton, Philadelphia. Stone and frame, 2 stories, 36x38 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to Thomas C. Copeland, Bustleton, Philadelphia.

**Apartments (add.)**, 4140 Market street, Philadelphia, \$6,600. Architect, private plans. Owner, George Dobson, on premises. Brick, 1 story, 20x20 feet, slag roof, hardwood floors, electric work. Contract awarded to Arthur Hummer, 426 North Thirty-eighth street, Philadelphia.

**Store and Storage (alts.)**, 1025 Market street, Philadelphia, \$5,000. Architect, private plans. Owners, Hare Estate, on premises. General alterations. Contract awarded to Miller & England, 1124 Washington avenue.

**Garages (2)**, East side Cresson street, North of Roxborough avenue, \$6,000. Architect, private plans. Owner, John A. Dever, 100 Rector street, Philadelphia. Brick, 1 story, 18x99 feet and 18x30 feet, slag roof, cement floors. Contract awarded to A. J. Makem, 201 Levering street, Philadelphia.

**Residence**, Southwest Corner Forty-fourth and Chestnut streets, Philadelphia, \$6,000. Architect, private plans. Owner, Louis Mailer, on premises. Brick, 2 stories add., 13x15

feet. Contract awarded to Louis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

**Garages (2)**, 2029 East Willard street, Philadelphia, \$5,000. Architect, private plans. Owner, Joseph Campbell, on premises. Brick, 1 story, 30x16 feet, slag roof, cement floors, electric work. Contract awarded to John George, 4138 Salem street, Philadelphia.

**Office and Apartments (alts.)**, 1902 Tioga street, Philadelphia, \$5,000. Architect, private plans. Owner, Dr. C. Becker, 1902 Tioga street, Philadelphia. General alterations. Contract awarded to T. M. Keeley, 4411 Germantown avenue, Philadelphia.

**Boiler-House (add.)**, Tasker Street Wharf and Delaware River, \$90,000. Architect, private plans. Owner, W. J. McCahan, Front and Tasker streets, Philadelphia. First-class brick and steel, 65x125 feet, slag roof, cement floors, waterproofing, steel sash. Contract awarded to U. G. I. Co., Broad and Arch streets, Philadelphia.

**Residences (2)**, North side Evergreen Ave., west of Germantown Ave., Phila., \$16,000. Architect, private plans. Owners, Charles Buttenhurst and E. Anderson, care of builder. Brick, 2 stories, 16x41 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Melvin H. Grebe, 5 East Highland avenue, Philadelphia.

**Garages (2)**, 5024-26 Pentridge street, Philadelphia, \$5,000. Architect, private plans. Owner, John S. Day, 5024 Pentridge street, Philadelphia. Brick, 1 story, 16x20 feet, and 1 story 36x40 feet, slag roof, cement floors, electric light. Contract awarded to Seeds & Steinmetz, 551 South Yewdall street, Philadelphia.

**Garage**, Northwest Corner Sepviva street and Norris street, Philadelphia, \$4,500. Architect, private plans. Owner, Julius Cross, Northeast Corner Frankford avenue and Norris street. Brick, 1 story, 40x42 feet, 16x16 feet, slag roof, cement floors. Contract awarded to H. Hofmeister, 2247 North Fifth street, Philadelphia.

**Residences (8)**, East side Burholme, North of Fuller street, \$4,000 each. Architect, private plans. Owners, Fox Chase Land Co., Fox Chase, Philadelphia. Brick, 2 stories, 16x37x7 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to W. E. Strock, Fox Chase, Pa.

**Bank (alts.)**, Northwest Corner Broad and Chestnut streets, Philadelphia, \$3,000. Architect, private plans. Owners, Girard Trust Company, on premises. Carpentry work. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

**Residences (2) (alts.)**, 6030-32 Beechwood street, Philadelphia, \$3,000. Owners, M. Savar

and W. H. Friend, on premises. General alterations. Contract awarded to M. A. Baylor, 102 Pastorious street, Philadelphia.

**Cleaning and Drying Building (add.)**, 5904 Germantown avenue, \$2,500. Architect, private plans. Owner, I. Herzog, on premises. Brick, second story add., 16x38 feet, slag roof, electric light. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

**Garages (2)**, South side Schiller street, East of Gstreet, \$3,000. Architect, private plans. Owner, Cyrus Blackburn, on premises. Brick, 1 story, 17x17 feet, slag roof, cement floors electric work. Contract awarded to Edward B. Miller, 3935 North Marshall street.

**Residence and Store (alts. and add.)**, 4339 Frankford avenue, \$3,000. Owner, A. H. Bennett, on premises. Brick, 1 story, 3x16 feet, general alterations. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

**Hospital (alts.)**, North Cottage avenue and Twenty-second street, Philadelphia, \$2,500. Owners, Women's Hospital, on premises. General alterations. Contract awarded to F. T. Mercer Co., 1916 Brandywine street, Philadelphia.

**Residence (alts. and add.)**, 27 East Gowen avenue, Philadelphia, \$2,570. Architect, private plans. Owner, H. C. Heaton, on premises. Brick, 1 story add., 6 feet 2 inches x 14 feet, general alterations. Contract awarded to P. A. Sorensen, 1133 Callowhill street.

**Residence (alts. and add.)**, Southeast Corner Fifty-fifth and Delancy streets, \$2,500. Architect, private plans. Owner, J. Cohen, 5470 Delancy street, Philadelphia. Brick, 1 story add., 20x71½ feet, general alterations. Contract awarded to H. Hofmeister, 2247 North Fifth street, Philadelphia.

**Residence and Store (alts.)**, 2802 Germantown avenue, \$2,200. Architect, private plans. Owner, George A. Haas, on premises. General alterations. Contract awarded to H. C. Zingraf, 2527 North Seventh street, Philadelphia.

**Residence and Store (alts.)**, Northwest Corner Third and Mercy streets, \$2,000. Architect, private plans. Owner, David Penos, on premises. General alterations. Contract awarded to Samuel Rubin, 324 Dickinson street, Philadelphia.

**Apartment (alts. and add.)**, 2156 North Nineteenth street, Philadelphia, \$3,600. Architect, private plans. Owner, Lydia Nischan, on premises. Brick, third story add., 12x30 feet, general alterations. Contract awarded to George P. Clayton, 1819 North Twentieth street, Philadelphia.

**Residence (alts.)**, 2033 Walnut street, Phil-

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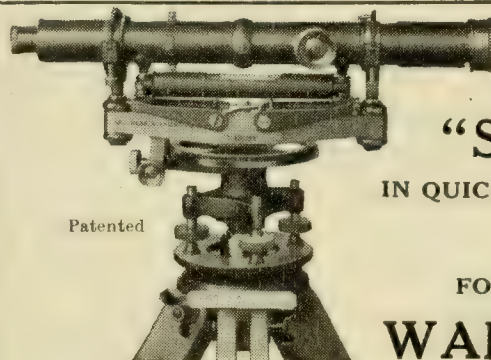
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Philadelphia, \$3,000. Architect, private plans. Owner, Morris M. Rosenthal, 1810 Chestnut street, Philadelphia. General alterations. Contract awarded to Farrell-Roth Const. Co., 1615 Spruce street.

**Residence (alts. and add.),** 2216 North Nineteenth street, Philadelphia. Architect, private plans. Owner, Mrs. Ida R. Showers, on premises. Brick, 2 story add., 11½x10½ feet, general alterations. Contract awarded to C. H. Brooker, 2257 North Uber street, Philadelphia.

**Residence (add.),** 8212 St. Martin's Lane, Philadelphia, \$2,500. Architect, private plans. Owner, William N. Monce, on premises. Brick, 1 story add., 30x21 feet. Contract awarded to J. M. Zane, Land Title Building, Philadelphia.

**Residence and Store (alts.),** Northeast Corner Luray and Rising Sun avenue, \$2,000. Architect, private plans. Owner, Charles Bernhardt, on premises. General alterations. Contract awarded to Walter C. Johnson, 4601 Ella street, Philadelphia.

## Pennsylvania Construction News

**Residences (8) and Garages,** Grandview avenue, Ardmore, Pa. Architect, John Charles North, Ardmore, Pa. Owner, John Charles Norton, Ardmore, Pa. Penn Building Block, plaster and tile, 3 stories, 22x45 feet, garages, 1 story, 18x24 feet, hot water heat, electric light, tile roof, hardwood floors, tile and marble work, kitchen equipment. Plans in progress.

**Grade School,** Berwick, Pa., \$125,000. Architect, H. Heavener, Berwick, Pa. Owners, Berwick School Board, G. B. Vance, secretary, Berwick, Pa. Fireproof, 12 rooms. Architect selected.

**Store and Apartment (alts. and add.),** Harrisburg, Pa., \$25,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owner, Mr. Aori, care of architect. Brick, 3 stories, 30x110 feet, slag roof, hardwood floors, metal lath, tile work, electric light, copper work, plate glass. Plans in progress.

**Moravian Arcave,** Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owners, Moravian Congregation, care of architect. Brick, steel frame, 3 stories, 40x60 feet, slate roof, terrazzo floors, hollow tile, electric light, metal lath, tile work. Plans in progress.

**Residence and Garage (2),** Clifton Heights, Pa. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, care of architect. Brick and frame, 2 stories, 20x120 feet, shingle roof, hot water heat, yellow pine floors, hardwood floors, electric light, hollow tile, tile work, bond, waterproofing. Plans in progress.

**Residence,** Summage street, Darby, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, D. D. Steel, care of architects. Cement block, 2 stories, 20x40 feet, hot air heat, electric light, pine floors. Plans completed. Owner will build.

**Garage,** Bryn Mawr, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Michael Kelly, Bryn Mawr, Pa. Penn Building Block, brick, steel, 1 story, 70x79 feet, hot water heat, electric light, reinforced concrete floors, built-up asphalt roof, wood sash, hollow metal skylight and doors, wire glass. Plans completed. Owner ready for bids.

**Apartment (alts. and add.),** Allentown, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Harry Marble, Allentown, Pa. Brick, 3 stories, 15½x30 feet, slag roof, pine floors, electric light, general interior alterations. Owner will take bids.

**School Building,** Montgomery Township, Montgomery County, Pa. Architect, C. E. Schermerhorn and Watson K. Phillips, associate, 430 Walnut street, Philadelphia. Owners, Board of Education, Montgomery Township, Montgomery County, Pa. Brick, stone, slate roof, consists of 4 class rooms. Plans in progress. Ready for bids in the fall.

**Residence,** Towando, Pa., \$10,000. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owner, C. M. Thompson, Towando, Pa. Clay tile and stucco, 2½ stories, 30x34 feet, tile roof, hardwood floors, electric lighting. Owner will build.

**School (alts.),** Wayne street, Lewistown, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Lewistown School Board, A. A. Aurand, secretary, Lewistown, Pa. Interior alterations, central heating plant, plumbing, (2) iron stairways. Architects ready for bids.

**School,** Steelton, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg. Owners, St. Peter's Roman Catholic Church, Rev. L. Gladek, Second street, Steelton, Pa. Brick, 1 story and basement, 68x30 feet, composition roof, floors (heating, plumbing and electric work reserved). Architects taking bids due July 28th.

**Bank,** Conshohocken, Pa. Architects, Magaziner, Everhard & Harris, 603 Chestnut street, Philadelphia. Owners, First National Bank of Conshohocken, Pa. Brick, cut stone, steel, 2 stories, 49x50 feet, slag roof, cement, cork

tile and linoleum floors, metal lath, tile and marble work, rolled steel and hollow metal sash, kalamein doors, bond, waterproofing, iron work. Architect taking bids due July 26th.

**Church,** West Manayunk, Pa. Architects, Bureau of Architecture, Methodist Episcopal Church, A. M. Dobbins, 1701 Arch street, Philadelphia. Owners, Ashland Avenue Methodist Episcopal Church, West Manayunk, Pa. Stone, concrete block, stucco, 1 story, 66x29 feet, slate roof, electric light (heating and plumbing reserved), yellow pine floors, bond. Architect taking bids due July 25th.

**College Hill School,** Easton, Pa. Architect, A. D. Chidsey, Jr., 341½ Northampton street, Easton, Pa. Associate architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, College Hill School, Easton, Pa. Stucco and concrete block, 1 story and basement, 60x90 feet, slag roof, maple floors (heating, electric work and plumbing reserved). A. D. Chidsey taking bids due July 24th.

**Residence and Garage,** Churchville, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, Alex. Auerbach, care of architect. Hollow tile and stucco, 2½ stories, 60x35 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Architect taking bids due July 25th.

**School,** Watsonstown, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Johnstown School Board, David L. Bly, president, and Frank E. Kirk, secretary, Watsonstown, Pa. Brick, stone, 3 stories, 75x70 feet, built-up roof, pine floors, unit system mheating, electric lighting, reversible sash, iron and steel work, bond. Deposit, \$15. Refund, \$15. Architect taking bids due August 15th at 7.30 P. M. at Fifth Street School Building.

**Junior High School,** Easton, Pa. Architects, W. M. Michler and J. W. Shnyder, Drake Building, Easton, Pa. Owners, School Board of Easton, R. E. Peifer, 30 North Second street, Easton. Low bidders. Contract awarded to Benjamin Rymon, Phillipsburg, N. J., \$285,324.

## Pennsylvania Contracts Awarded

**Chapel and Auditorium,** White's Ferry, Pa. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Michael's Industrial School, White's Ferry, Pa. Stone, cut stone and reinforced concrete, 1 story and basement, 62x98 feet, Carey and slate roof, Furaflex, cement and pine floors, plumbing, metal weather strip, dampproofing, iron work

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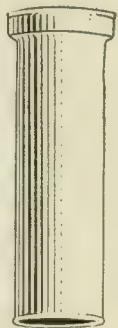
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and stairs, floor hardener, bond, kalamein doors, metal lath (heating and lighting separate bids). Contract awarded to F. V. Warren Co., 1913 Arch street, Philadelphia.

**Bank**, Third and Calder streets, Harrisburg, Pa. Architects, Simons, Brittain & English, Pittsburgh, Pa. Owners, Keystone Bank, J. P. McCullough, Harrisburg, Pa. Brick and stone, 1 story, 40x95 feet, composition roof, tile, marble and terrazzo work, electric light, roof ventilators, vaults (2). Contract awarded to Simon, Brittain & English, Pittsburgh, Pa.

**High School Shop (alts.) to Class Rooms and New Boiler Plant**, Harrisburg, Pa., \$60,987. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board, care of D. D. Hammelbaugh, 121 Chestnut street, Harrisburg, Pa. Brick, 1 story, 35x60 feet, gypsum and concrete slab roof, concrete floors (heating and lighting reserved), rolled steel skylights, kalamein doors, roof ventilators, general alterations. Contract awarded to H. A. Hipple, Harrisburg Bank Building, Harrisburg, Pa.

**Garages**, West Lancaster avenue, Ardmore, Pa. Architect, J. Charles Norton, Ardmore, Pa. Owner, George Wolfington, East Lancaster avenue, Ardmore, Pa. (former owners, Kettering & Richmond, Ardmore, Pa.). Brick and steel, 1 story, 75x90 feet, slag roof, cement floors, steam heat (oil burning), hollow metal sash, (2) ventilators, hollow metal doors. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

**Power House**, Villa Marie, West Chester, Pa. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, I. H. M. Sisters, Villa Marie, West Chester, Pa. Brick, steel and cut stone, 1 story, 40x50 feet, monitor slate roof, cement floors, rolled steel sash and skylights, bond, ornamental iron work. Contract awarded to W. H. Jones, West Chester, Pa.

**Residence (alts.)**, Rydal, Pa. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owner, W. S. Peace, Rydal, Pa. Painting, heating, plumbing, electric reserved, oak and yellow pine floors, carpentry and mill work, plastering, bond. Contract awarded to E. Allen Reeves, Abington, Pa.

**Residence**, Rosemont, Bethlehem, Pa., \$25,000. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem, Pa. Owner, Rev. H. J. Croushore, Rosemont, Bethlehem, Pa. Brick, 2½ stories, slate roof, hardwood floors, electric light, tile work. Contract awarded to Tilghman Moyer Co., Allentown, Pa.

**Club House**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Susquehanna Valley Country Club, W. H. Rohrback, chairman of Building Committee, Fifth and Market streets, Sunbury, Pa. Contract awarded to Albert Boyer, Northumberland, Pa.

**Glenside Weldon School**, Eastbrook Road, North of Parkside avenue, Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Abington Township School Board, C. M. Doll, secretary, Elkins Park, Pa. Contract awarded to Friel & McLeister, Inc., 1615 Spruce street, \$174,444. Plumbing, William J. Magee, 2040½ East Chelten avenue, Philadelphia. Electric, Bryn Mawr Electric Co., Bryn Mawr, Pa. Heating, J. P. Smith, Inc., 138 North Seventh street, Philadelphia.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa.

Berks County, Route 141, Tilden Township, 21,666 feet. Bituminous macadam, penetration method on reconstructed base course, \$93,159.60. Contract awarded to William E. Supplee, Wayne, Pa.

Westmoreland-Fayette Counties, Route 247, Rostraver and Washington Townships, 12,262 feet. Either bituminous macadam, penetration method, or bituminous surface course on

reconstructed base course, \$61,316.22. Contract awarded to Smith Const. Co., Youngstown, Ohio.

Washington County, Route 108, North and South Strabane Townships, 16,413 feet. Either bituminous macadam, penetration method, or bituminous surface course on reconstructed base course, \$92,863.59. Contract awarded to Smith Const. Co., Youngstown, Ohio.

Westmoreland County, Route 69, Hempfield Township, 10,300 feet. Either bituminous macadam, penetration method, or bituminous surface course on reconstructed base course, \$56,326.53. Contract awarded to Smith Const. Co., Youngstown, Ohio.

Bucks County, Route 152, Doylestown and Buckingham Townships, 16,803 feet. Bituminous macadam, penetration method, on reconstructed base course. Contract awarded to W. C. Guncheon & Co., Smethport, Pa., \$78,426.10.

Westmoreland County, Route 118, Hempfield Township, 23,917 feet. Either bituminous macadam, penetration method, or bituminous surface course on reconstructed base course. Contract awarded to Smith Const. Co., Youngstown, O., \$123,312.01.

Blair County, Route 53, Juniata, Blair and Allegheny Townships, 26,018 feet. Bituminous macadam, penetration method, on reconstructed base course. Contract awarded to Paul Const. Co., Harris Building, Twenty-second and Market streets, Philadelphia, \$100,870.20.

Crawford County, Appli. 2246, Springboro Borough, 6,241 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Henry W. Horst Co., Rock Island, Ill., \$46,761.82.

## New Jersey

### Construction News

**Main Pumping Station (electric work)**, Sewell, N. J. Const. engineer, F. F. Kauffmann, 13 North Thirteenth street, Philadelphia. Owners, City of Woodbury, City Hall, Clinton S. Davis, City Clerk. Furnishing and installing one switchboard, with all necessary wiring, conduits, lamps, fixtures and switches, etc. Deposit, \$10.00. Refund, \$10.00. Owners taking bids due July 24th, 7 P. M. (standard time).

**Church (add. and alts.)**, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, Central Baptist Church, care of architect. Stone and stucco, 1 story and basement, 50x15 feet, slag roof, hardwood floors, hollow tile, heating extension, electric lighting, metal lath, tile, marble and terrazzo work, hollow metal skylights, general interior alterations, ornamental iron work. Plans in progress.

**Hospital (2 groups)**, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor Donnelly, City Hall, Trenton. Frame, 1 story, (2) 60x25 feet, slate roof, hardwood floors, steam heat, electric light, hospital equipment. Plans in progress.

**Residence**, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, M. Crosby, care of architects. Brick and shingle, 2½ stories, 20x35 feet, slate roof, hardwood floors, electric light, tile work. Architects ready for bids.

**Bungalows**, Ocean City, N. J. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Mr. T. J. Priestley, Ocean City, N. J. Plans in progress.

**Fire House**, Palmyra, N. J. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owners, Independent Fire Co. of Palmyra, care of James T. Weart, Palmyra, N. J. Hot water heat, electric light, slag roof, cement floors, brick and plumbing. Owners taking bids.

**Grade School**, Toms River, N. J. Architect, Clinton B. Cook, Asbury Park Trust Building, Asbury Park, N. J. Owners, Board of Education, Toms River, N. J. Brick and steel, 2 stories and basement, 212x72 feet, slag roof, metal lath, tile work, composition, concrete and maple floors, hollow tile. Owners taking bids due July 19th.

**Residence (alt. and add.)**, Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, B. Ralph Boyer, Riverton, N. J. Stone, general alterations, hot water heat, electric light, hardwood floors, tile work. Architect taking bids due July 20th.

**Residence (alts. and add.)**, Cinnaminson, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, William Parry, Cinnaminson, N. J. General alterations. Architect taking bids due July 21st.

## New Jersey

### Contracts Awarded

**Community Garage**, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Alfathery Candy Co., 335 North Warren street, Trenton, N. J. Cement block, 1 story, 41x54 feet, slag roof, concrete floors, electric light, floor hardener. Contract awarded to General Cont. & Const. Co., 117 Emory street, Trenton, N. J.

## Miscellaneous

### Construction News

**Bank (alts.)**, Dover, Del. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Farmers' Bank, Dover, Del. Brick, reinforced concrete, granite limestone, steel, 1 story and basement, 75x28 feet, steam heat, electric lighting, metal lath, tile, marble and slate work, rolled steel sash and skylight, bond, copper roof, cement floors, hollow tile, plumbing, Morene Art Cement finish. Contract awarded to William B. Litscomb Co., Washington, D. C.

**Water Supply System**, Neenah, Wisconsin. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, Treasury Department, Supervising Architect's Office, Washington, D. C. New rain water supply system at the United States

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Post Office at Neenah, Wis. Owners taking bids due August 7th at 3 P. M. Copies of drawing and specifications may be obtained from the Custodian at Neenah, Wis., or from Supervising Architect's Office.

**Post Office (alts.),** Concord, N. H. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, Treasury Department, Acting Supervising Architect's Office, Washington, D. C. Remodeling post office screen, changing north entrance to a window opening, general alterations. Owners taking bids due August 8th at 3 P. M. Drawings and specifications may be obtained at office of Custodian of Building or at the Supervising Architect's office.

**Post Office (add.),** Spartanburg, S. C. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, Treasury Department, Office of the Supervising Architect, Washington, D. C. Brick, non-fireproof, 1 story, approximately 23x46 feet, extension of present brick driveway. Owners taking bids due August 6th at 3 P. M. Drawings and specifications may be obtained from custodian of building or at office of Supervising Architect.

**Mailing Shed,** Fort Scott, Kansas. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, Treasury Department, Office of the Supervising Architect, Washington, D. C. Frame, 1 story, 20x20 feet, brick partitions in basement of United States Court House and Post Office, general repairs. Owners taking bids due August 8th at 3 P. M. Drawings and specifications may be obtained from custodian of building or at the office of the supervising architect.

(Continued from page 452)

vised and can avoid an extra if you choose.

#### (c) Duties of the architect.

1. Make sure that the owner understands every detail of the provisions of your plans and specifications.

So illustrate and explain your work that he has a definite, clear mental picture of the house your drawings call for. When owner and architect fully comprehend each other, half the battle is won.

2. Complete plans and details and complete, definite specifications actually cost less to produce, in the end, than slipshod documents which must constantly be supplemented and corrected. Remember that the owner is justified in feeling that you are the responsible person if he is put to added cost through errors or omissions in your work.

3. All directions, approval or disapproval of the work to the contractors should be in writing (conversations are easily distorted or forgotten).

4. Allow no changes or substitutions unless the owner's approval is obtained in writing or he is advised in writing.

5. See that all provisions of the contract are fairly carried out.

#### (d) Duties of the contractor.

1. Carry out all provisions of the contract "to the letter." If difficulties arise, advise the architect (preferably in writing) he is employed by the owner to assist you.

2. Insist that all directions come from the architect in writing and by all means

do all your business with the owner through him.

3. Hand pick your sub-contractors. Don't expect to get good work from those who are incompetent and inexperienced, whose work always reflects detrimentally upon you.

4. Don't eternally try to substitute, unless you are convinced some other material is more than equivalent, or that specified is found to be not readily obtained.

5. Work in close co-operation and harmony with other contractors on the work and again THROUGH THE ARCHITECT as executive.

6. If changes are suggested affecting the cost, submit definite estimates in writing to the architect at once before any work is done that the owner through the architect may be definitely and immediately advised.

What has been set down here about "extras" and added expense in home building are truths. Every architect and contractor knows from experience that the one reason why building expense runs higher than estimates is due to "changes." If these suggestions seem too complex and involved and if they do not appear to apply to a little home, particularly if the home is yours, you are fooling yourself at the start. Remember that every dollar you spend represents a dollar invested in materials, labor, equipment. You want to make that dollar count, you want to keep your building costs down, you want full value for your money, then heed the advice of those who know and first determine upon what you want in your home, what it will cost and then stick to it. Don't make changes.

## A NEW HOTEL IN YOUR TOWN

### II. Determining Its Size

*The second in a series of articles that traces, step by step, the phases through which the hotel project in the medium size city should pass before it becomes a successful reality.*

BY W. L. STODDARD, Architect

*Reprinted Through the Courtesy of "Hotel Management"*

**L**AST month we left Mr. Jones, Blankville's young manufacturer who had been stung by the hotel bee, with a board of directors on his hands—appointed by the local chamber of commerce—and with instructions from that august body to go ahead and do whatever was necessary to give Blankville a new, modern hotel.

Readers will remember that the committee of which Jones was chairman was composed of a banker, a lawyer, a newspaper editor and a wholesaler. It was up to them to start the ball rolling, and when they faced each other over the conference

table they found that they had a unique and totally different ideas as to where they should begin.

Fortunately for Blankville, however, they were good enough business men to recognize their own limitations, so it was not long before they became convinced that there was only one logical course they could pursue—namely, to call in expert technical advice.

\* \* \* \* \*

Let us now leave Jones, his board of directors and the people of Blankville—all of whom are typical of a thousand towns of 20,000 to 50,000 population throughout the country—and proceed to analyze in a more matter-of-fact way the considerations that affect the launching of the average hotel in the average community.

We have chosen the determination of the new hotel's size as the first matter for discussion. Other articles will take up the selection of its site; its cost and financing; the nature of the understanding entered into by the owners and the architect; adapting the hotel to the needs of the city, and the selection of an experienced and successful lessee.

The average board of directors or chamber of commerce committee appointed to initiate a hotel project is seldom qualified to make an intelligent decision as to the size hotel their city will stand. An experienced hotel man—and preferably the man desired as the new hotel's lessee—should be called in. If he managed hotels in cities similar to the one in question—and managed them capably—it is more than probable that he can "size up" the town's hotel possibilities much more accurately than can the owners.

This does not mean, of course, that the directors' views should be ignored. Particularly is this true if a sound, progressive retail merchant, who from the nature of his business should be thoroughly familiar with the ins and outs of the town's inhabitants, is a member of the board. The counsel of men of this type is often invaluable, for they are usually in a better position than others to advise as to how much local support and patronage the new hotel will be able to count on.

Then, too, the other board members—if they are men who have kept closely in touch with their city's development—can also contribute something worth while from their experience—namely their knowledge of the manufacturing, trade or agricultural lines along which the town is expanding. If for example, the city is primarily an industrial one, a smaller number of commercial travelers and fewer tourists can be expected than if it is principally a trading center. Here, then, is another limiting factor the promoters should take into consideration. Probably, however, more out-of-town



buyers could be persuaded to patronize the new hotel in the typical manufacturing city than would be the case in a trade or farming center.

#### *Gauging Local Interest*

The greatest advantage that the board of directors can bring to the problem of determining the size of the new hotel lies, however, in their ability to gauge the interest and patronage that the townspeople themselves will bring to it, and to estimate what effect the institution will have as a stimulus to the city's commercial and social activities. It goes without saying that the directors should do all in their power to arouse the interest of their fellow townsmen to its highest pitch and to imbue in them lasting enthusiasm for the new establishment both as a retreat for them to use personally and in its capacity of stimulating the community's civic pride and development.

Another important factor bearing on the size of the new hotel is the city's location with reference to the surrounding country. Is the town the natural center of interest for near-by activities—whether manufacturing or farming? Is it on a main-line railroad? Does a well-known automobile highway run through it? If these are the conditions it will, of course, support a hotel with a larger number of rooms than would be the case in a city less favorably situated.

Another point worthy of mention in this connection is the fact that a well located community, with sufficient modern hotel facilities, is a logical convention center. A new, modern hotel will frequently bring state and local conventions even if it is not quite as conveniently situated as some other city in the State. This is a point which the board of directors and the hotel's prospective manager should take into consideration. It will be discussed more fully in the article on adapting the hotel to the community's needs which will appear later in this series, but it is mentioned here because the matter of whether or not conventions can be anticipated has a direct bearing on the size of the new hotel.

#### *The Danger in Drawing Outside Comparisons*

The board of directors, in the course of their work, will probably inspect hotels in other cities. If they do this with the idea of drawing comparisons between populations and the number of hotel rooms in various communities, they will be playing with fire. Too many factors enter into the problem of fixing the size for the new hotel to make comparisons with other cities of any great value.

Here is a case in point: In 1917, the O. Henry Hotel of Greensboro, N. C., was opened to the public. It had 175

bedrooms and there were approximately 100 more hotel bedrooms in the town. Greensboro was then a city of 30,000 population, which gives an approximate average of one hotel room to each 109 inhabitants. The hotel was a success from the start. It is, for one thing, situated in a main-line town and—even more important—the people were *leading* the hotel from the word go. Ninety more rooms were added in 1920 (the population had increased to 40,000 in the interval) and the hotel has done a capacity business ever since it opened. The city is now giving consideration to the building of another hotel in order to take care of increased business.

Compare this hotel experience with the following which, except for the name, is also an actual one. Right in the midst of the temporary post-war boom, Rich-town (also 30,000 inhabitants) decided to build a new hotel. A site off the main thoroughfare was selected and no expense was spared to make the institution a "monument" to the community. This hotel had 175 rooms—the community totalled 125 more—but still it could not be successfully operated. Fancy prices had to be charged for one thing, because of the high initial cost of the structure, and there was not a large enough number of commercial travelers or local patrons—particularly when the boom period ended—who could afford to pay the prices necessary. The first lessee of this hotel found it impossible to meet his rental charges out of revenue and sold his lease at a much lower rental, and as the owners of the hotel were also interested financially in the operation both the lessee and stockholders suffered.

How will the town's present hotel accommodations affect the size of the new house? Not one iota in my opinion *unless* one or more of these hotels is also thoroughly modern and up-to-date. I have seen it happen so often that I am thoroughly convinced a new, modern hotel will create business for *all* the hotels in town. I make this statement with the reservation that the townspeople must themselves be heart and soul behind their town and its hotels—as many of them as possible should be stockholders in them. Time and again the effect of a new house has been to stimulate the "hotel idea" in a town's inhabitants—to the benefit of *all* the local houses. Then, too, a new hotel will frequently attract a larger out-of-town clientele than it can alone accommodate, and always a city's population has increased far more rapidly than it ordinarily would have, had not a new hotel been built.

#### *Two Fundamental Factors*

Just what size, then, in the light of all these factors, should the new house be? That is an impossible question to answer

categorically. The following two axioms, however, I believe to be fundamental:

*First:* It is not a sound financial proposition to build a modern fireproof hotel of less than 100 bed rooms. Because of the public space required in a hotel of any size, it takes this minimum number of rooms to produce sufficient revenue to insure the interest on the investment. In making this statement, I am, of course, not speaking of "freak" situations where because of abnormal advantages of one kind or another, a modern hotel of less than 100 rooms has proven profitable.

*Second:* It is a safer business proposition to build conservatively and allow for later expansion than it is to become over-enthusiastic at the start and perhaps be left with a "white elephant."

In every case with which I have come in contact, it has been possible to utilize the plot in such a way as to provide properly for future additions.

Another important point that has a direct bearing on the size of the new hotel is the anticipated revenue from stores and concessions. This revenue should, in my opinion, be equal to the interest on at least 25 per cent. of the cost of the building. The typical ground plan will show how stores can in most cases be worked into the general plan. It is also obvious that the hotel's location with relation to the city's retail center is important in this connection. This phase of the problem will be discussed more thoroughly later.

### GOOD ARCHITECTURE SHOULD EXPRESS THE SPIRIT OF THE COMMUNITY\*

BY CARL F. GOULD

*President, Washington State Chapter, A. I. A.*

The American Institute of Architects, composed, as it is, of local chapters distributed throughout the entire United States, has a cohesive strength and is of value to the various communities and to the country at large just to the extent that each individual is impelled by that apparently indefinable impulse to create in our physical necessities, orderliness and beauty. Just what is it that puts the spirit into the architect and keeps him at his work day by day when he knows from the beginning to the end of his profession that he cannot obtain what all the world seems most to desire—worldly increment. To an outsider who may happen to be present at one of our conventions such subject as building ordinances, competition codes, employment of labor, schedule of charges, etc., would

\*Paper read before the Washington State Chapter A. I. A.



appear to be those which are uppermost in our minds. These subjects are always discussed with a fervor and intensity of feeling by cultured and intelligent men, while the very inner reasons for our existence are apparently ignored. This may be due to the fact that the intimate things of the spirit we never allow to appear in the foreground of our consciousness; it may be we cannot find words that adequately give our feelings expression. We hesitate, while the most obviously secondary things slip easily into words and inhibit an expression of our real feelings.

We cannot easily describe the fervor of feeling of bringing into being something that the world wants—whether it is a shelter for a family or a place in which to worship or a bridge for our traffic to cross upon—but there is a fundamental impulse which when expressed and we see its accomplishment gives a sense of satisfaction. When, however, to these creations we add an element of what is recognized as beauty, the pleasure of creation is greatly intensified. This ingredient of beauty, which is the very soul of our profession, we seldom or ever allow ourselves to consider. I remember so well some years ago at a convention held in Washington, D. C., an address by Lloyd Warren, who died recently, in which he said that the artist in the architect must be in command. I recall also an inspiring statement made at the close of our convention two years ago by Dr. Suzzallo, president of the University of Washington, that we, the architects, were the custodians of beauty, a thought which places an uplifting responsibility upon us and one which we should treasure. It must be just this desire of creation in terms of beauty that puts the spirit into our profession and makes it possible for us to endure its hardships and the frequent lack of public esteem.

I am going to try to analyze for a moment a few of the ingredients of which this term "beauty" in architecture is composed. I realize my utter incapacity for doing this, and beg you not to grow impatient. I shall limit myself to the discussion of a few of the inherent elements in a building which are not usually considered factors in determining its beauty. I shall not discuss proportion or the charm and quality of detail, which we so often think of as the only medium of expressing architectural beauty. These can be best illustrated by taking you for a moment upon a trip to a far country. The very wonder of the Egyptian pyramids draws us to them. We are lifted out of the monotony of our own life into the realm of the spirit of universal man in their presence. No people ever strove harder to divert more of their hard-earned economic wealth to make effective and give beauty of expression to

their belief in the life of the soul than the Egyptians. In the presence of the sheer size of these pyramids an emotion is aroused just as were aroused the emotions of the Egyptians 5000 years ago. Realize for a moment that their mass laid down upon, for instance, the 40-story Smith Building, would completely encompass it and rise many feet beyond its height. It is by the very extent of the mass alone that we are impressed. The wonder which is engendered by this external mass may also be engendered by internal space, such as the interior of St. Peter's at Rome, the Pennsylvania Station at New York, and to a less degree by the interior of the Forestry Building at the university. Sheer size is one of the means by which the architect can create an emotional appeal, and it must be taken into account as a factor or element of beauty. The Egyptians expressed the spirit of their race in terms of horizontality, the stability of line of their temples, of the unbroken silhouette against the sky, of the unpierced walls, of sturdy columns with their flat roofs and sombre interiors. Stability, endurance, finality, are the feelings we have in the presence of these big hypostyle halls. These were the architectural elements to which the Egyptians attached importance, and to them these were the essence of their life, and it is these appealing emotions of the ages which we travel many thousands of miles to obtain.

For a moment let us enter into the spirit of the mediaeval architectural expression, and we develop a series of entirely different emotions. The moment we set foot in the most marvelous of all buildings, a cathedral of the Gothic period, the eye does not travel horizontally as in Egypt, but follows up the attenuated clustered supports into the mysterious maze of pointed forms overhead. The whole seems not borne by earth, but something hung in the air. The weight of tradition is not upon us; a precedent plays no part. A vibrant atmosphere grips us. Imperfect in its incompleteness, maybe, but aspiring to infinity. Such is the emotional appeal that the great architects of the middle ages gave to the world a thousand years ago and to which we still respond.

The cool splendor of Greek architecture neither attempts to impress us by its sheer mass nor by its aspiring quality, but through the intellectual relationship of its parts and the exquisite refinement of all its elements, which can only be perceived and enjoyed by the highest type of mind; while beauty to the Roman was not primarily expressed in terms of refinement of parts, but by sumptuousness of detail and by a variety of forms, principally by the use of the arch and the vault.

These are all qualities which we usually do not consider as pertaining to beauty, but without which the monuments of the past could not have emotionalized the world down through the ages.

Until we can in our present forms of building attain to something which in its inherent mass expresses an intention which is a natural outcome of our present life and civilization, can we really hope to give to the world an architecture which will be of permanent beauty. At the present time we are so overlaid with a confusion of impressions and emotions that we have apparently no dominating one which gives a direction to our thought and from which the architect can obtain positive inspiration. On the one hand we find a structure like the Woolworth Building, piercing the air with a vibrant vertical effect, apparently satisfying all the elements which make for beauty, an inspiration which one would think would be followed. A new office building, however, is constructed in its vicinity, notably the new telephone building, the most costly office building in the world, made up of a series of super-imposed Greek marble temples, having no apparent intention of and totally contradicting its magnificent neighbor.

We have our court houses, post offices and our libraries expressing calm horizontality; we have our institutions of learning, expressing verticality; our city streets are made up of contradicting elements, and beauty exists only in isolated buildings here and there, not in the coherent relationship of a building to its neighbor. An eminent Frenchman in a recent interview states that "it is disconcerting to turn from manifestations of American architectural genius to the unsightly streets nearby, in the building of which all consideration apart from the strictly utilitarian would seem to have been banished. Houses big and small, handsome and hideous, pretentious and insignificant, ornamental and sordid, huddled side by side in jarring promiscuity, mute testimony of the stern material necessities and the preoccupations of the past. One is tempted to liken New York architecturally (he continues) to a garden overgrown with gigantic weeds, cleared in parts to make room for fair, well-trimmed avenues. Yet on all sides I see such strong evidence of a swiftly developing national artistic temperament that I am convinced the present blemishes will in due course be swept away."

(Continued Next Week)

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Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

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Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
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## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

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Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

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Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
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## CEMENT WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

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## CONCRETE TILE.

Duntle Concrete Mfg. Co. ....1310 Arch St., Phila.

## CONCRETE WORK.

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## DAILY BUILDING NEWS.

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Weil, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank. Ornamental Iron Works,  
1505 N. Mascher St., Phila.

Potts, Horace T. & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

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## FLUE LINING.

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## FURNACES AND RANGES.

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American and Dauphin Sts., Phila.

Fleck Bros. ....44 N. 5th St., Phila.  
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Richardson & Boynton Co. ....1308 Arch St., Phila.

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## GRATES.

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Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond St., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

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Keasbey & Mattison Co. ....1927 Market St., Phila.

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Insurance Co. of North America,  
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## IRON AND STEEL BARS AND PLATES.

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Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

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Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
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## LIGHT IRON CONSTRUCTION.

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Ketcham, Howard ....3rd and Girard Ave., Phila.  
Kugler, Geo. W., & Sons Co.,  
915 New Market St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
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Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

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Daniel C. Sinclair. ....East Lansdowne, Pa.

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Conkling-Armstrong Terra Cotta Co.,  
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Ketcham, O. W. ....121 N. 18th St., Phila.

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Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

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## WALL COPING.

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## WATERPROOFING.

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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 30  
July 25, 1923

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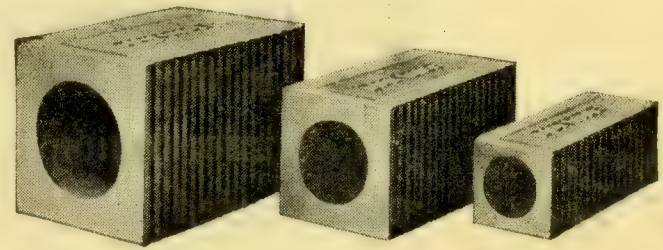
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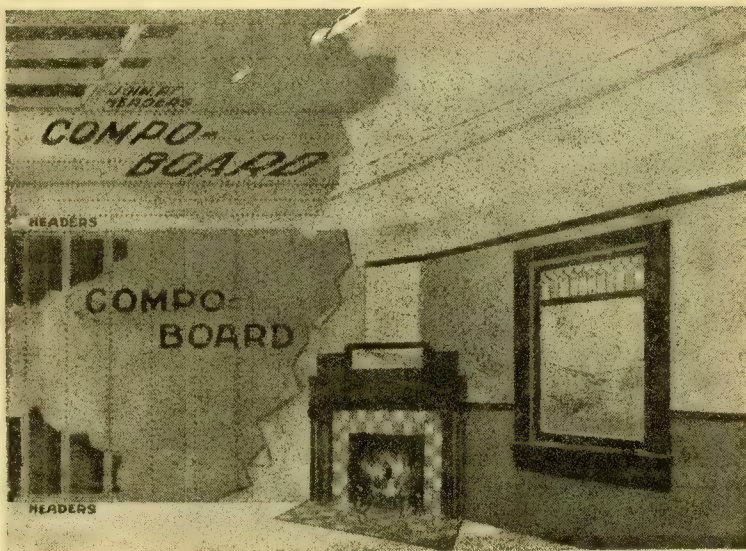
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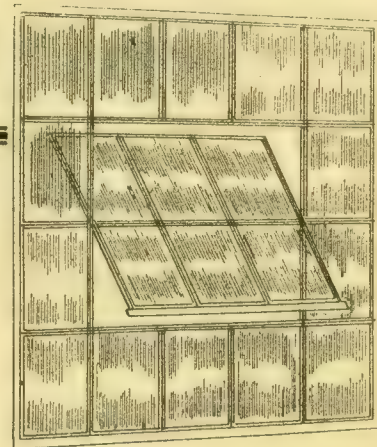
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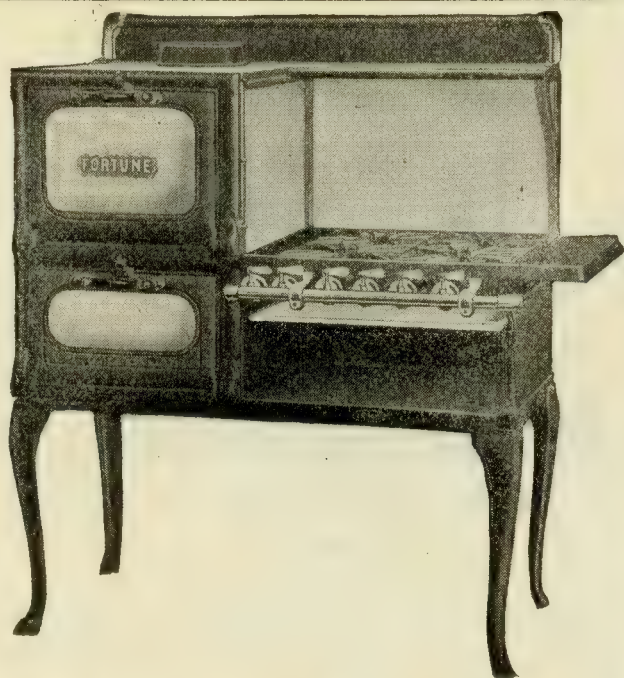
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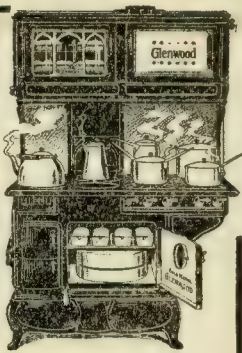


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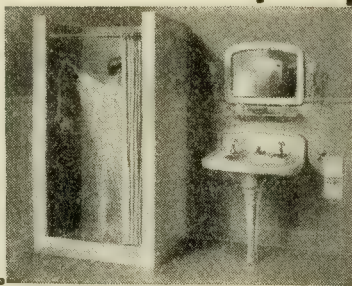
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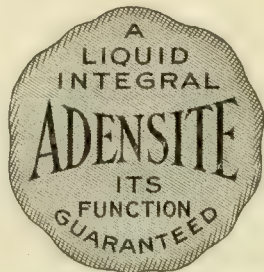
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 30

PHILADELPHIA  
July 25, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### ANALYSIS AND INTERPRETA- TION OF THE 1923-24 BUILD- ING PLAN

BY ALLEN E. BEALS

*of The Allen E. Beals Corporation*

Building construction as a national in-  
dustry appears to be mired in prosperity.

There is something indefinable in the  
wind that is making a boggy condition  
still more soggy. Captains of industry,  
believing that reaction follows action as  
truly in economics as in physics, are  
casting about for a way out of a quag-  
mire that may assume dangerous pro-  
portions before they reach the floundering  
stage.

When excess of demand produces, in  
proper time, excesses of supply, stabil-  
ization of price ensues. If the pendulum  
swings too far in favor of excess of sup-  
ply stagnation results.

The puzzling thing about the situation  
as it has developed during the first half  
of 1923 is that, although there has  
seemed to have been plenty of chances  
for supply to catch up, it still lags be-  
hind. But the tantalizing thing about  
the phenomenon is that no one will say  
that demand has been fully satiated; yet  
it is unmistakably waning.

After several years of intermittent ex-  
cessive demand and depression, supply  
of basic building commodities throughout  
the Eastern portion of the United States,  
at least, remains from a month to a

quarter of a year behind demand. In-  
vesting builders see in any present sur-  
cease from construction work, under ex-  
isting conditions, only a temporary res-  
pite, with possibilities aglow for still  
higher construction costs later on. If  
present building plans are pushed to ac-  
tive operation, the market will be forced  
to pay more for what it wants or go  
without. When the market decides to go  
without, prosperity is hampered, credits  
freeze, because the market becomes  
chilled, and demand accumulates to still  
further confound the builder of a later  
year.

Investing builders of the East, and ap-  
parently a large section of the West find  
themselves asking each other either in  
convention hall or office building cor-  
ridors: "What is the way out?"

Building construction as an industry  
is, at the close of the first half of the  
year, approximately \$2,000,000,000 be-  
yond normal. Building material produc-  
tion is proceeding at approximately  
\$900,000,000 beyond its topmost record in  
1916. Building labor only fills seven-  
tenths of the national demand, under the  
circumstances, hence "cost of construc-  
tion" rather than "cost of materials"  
is the dominant mire-producing factor,  
because labor heretofore has been able  
to command wages in proportion to its  
control of the building situation. In  
other words, labor today holds the East-  
ern building construction situation with-

in its power to say whether it stays  
mired or not.

True analysis of the situation of the  
hour must start from causes created by  
the war. It is the natural result of a  
surplus of gold already in possession of  
the United States Government and of  
enormous credits that represent many  
more billions than we already have con-  
trol of.

There is nothing to indicate at this  
time any incident in international poli-  
tics than can loom large enough to ar-  
rest this inflow of gold. Quite on the  
other hand, returning visitors to Europe,  
who are in a position to obtain authori-  
tative information regarding the prog-  
ress of diplomacy and commercial nego-  
tiation say they were assured that the  
settlement of the problem of the Ruhr  
is a probability of the near future.

Be that as it may fundamentals con-  
trolling the future of building in the  
Eastern part of the United States are  
sound. There is no decomposition set-  
ting in at the core as far as economists  
can see. The approach of the Presiden-  
tial election, however, is beginning to  
have its usual retardent effect upon in-  
vestment money.

The rigors of the campaign may even  
cause a temporary shrinkage of com-  
mercial money and may slow up institu-  
tional and endowment money for build-  
ing construction investment, but just so  
long as bonds and similar forms of se-

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curity bring 4, 4½, 5 and 5½ per cent., while first-class mortgages bring 6 per cent. and a bonus, there will be no basic lessening of demand for building material, there need be no reduction in building material, equipment or appliance production schedules, nor need building material, equipment or appliance factory expansion programs be postponed.

The worst that can happen to the building construction industry is a shift of dominant type of building construction, from habitational to commercial, institutional and industrial.

It has been a surprise to economists that commercial and industrial building construction has lagged so far behind housing. The tax exemption ordinances and other artificial means of stimulating a type of construction only partly accounts for the exhibit. But there is ample evidence that an overbalanced construction market is not always beneficial, notably the action of the New York Board of Aldermen in this year modifying the tax-exemption ordinance it passed on June 26.

It is a safe statement to make that even realty authorities now question the wisdom of carrying this emergency legislation to the extent it has been carried, namely, to a point where speculative multiple family housing enterprises have so raided the market for labor that wages have been forced far beyond established wage rates and have torn asunder the morale of the building construction craftsmen of New York that only a general building construction reaction can now cure. It has also been instrumental in artificially creating a demand for materials that the plant resources were unable to supply, thus keeping construction costs for legitimate builders, and even private home owners, so far out of their reach that they have been forced out of the market in many instances.

Every day in the year the population of the United States increases by 4,620 persons according to the Census Bureau. At five persons to the average family and a family to an apartment or home, there is here represented a daily demand in the nation for 924 habitations. It takes from six months to a year to erect a modern apartment house and from four to eight months to erect a dwelling.

Just after the war, when the Department of Labor launched on behalf of the United States Government a "build now campaign," it was announced that this country was short a million homes. According to competent authority, there have since been erected up to the opening of the 1923 building season 798,110 homes, including apartments, flats and dwellings, but not including apartment hotels and asylums. Had the country been

able to supply men and materials for these remaining 201,890 homes, there would still remain a demand for 808,800 apartments or homes as represented by the requirements of the normal daily population growth of the country.

To demonstrate the extent of expansion required of the industry to meet this sudden demand, let us pick out one basic building material commodity of which it may truly be said: "It enters in some form into practically every type of construction effort of man."

Cement meets this test. It supplies the best illustration of what it has meant for building material manufacturers to meet, not only the normal national growth of a country but its emergency war needs for a dependable building material, easily portable, pliable and reliable in the finished job, and, later, to meet not only building construction needs of all kinds, but in addition, the nation's road and other engineering requirements as well.

In order first to obtain the proper relation between building construction requirements and engineering requirements for cement let the following be noted: Cement used for farm buildings throughout the United States .92 per cent. of production; housing construction, 5.17 per cent.; industrial buildings, 25.18 per cent.; highways and engineering work, 69 per cent.

This representative building material, then, increased its production at manufacturing centres as follows:

	Barrels Per Year.
1915 .....	85,000,000
1916 .....	91,000,000
1917 .....	92,814,202
1918 (war) .....	71,081,000
1919 .....	80,777,935
1920 .....	100,302,000
1921 .....	98,239,000
1922 .....	113,870,000

Still, even with such a showing in building material demand as is here revealed (and it compares favorably with other basic building materials in proportion to the universality of their respective uses) there are companies who are practically sold out for the remainder of 1923. In other words, if they had more mill capacity they could sell still more cement.

The direct cause of the present stalemate in the building construction industry lies in the fact that at no time save in 1921, has building material production ever had even a chance to catch up with demand, and then it could not do so because of fuel and railroad difficulties, legislative investigations and other political disturbances that chilled credits to building material producers and left them still further unprepared for the

(Continued on Page 479)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Service Station**, Seventy-third and Woodland avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Steel and concrete slab, brick, 2 stories, 56x102 feet, vapor heat, electric lighting, slag roof, cement, plank and maple floors, elevators, plate glass, plumbing, iron work, hollow metal skylights. Plans in progress. Architect ready for bids in 3 weeks.

**Hospital Buildings**, Forty-eighth to Fortyninth, Market to Haverford streets. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Pennsylvania Hospital, Department for Mental and Nervous Diseases, Dr. Owen Copp, superintendent, Forty-sixth and Market streets, Philadelphia. Architect selected. Too early for details.

**Residence (alts.)**, 419 Pine street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, A. Blecharsky, on premises. General alterations. Plans in progress.

**Store (alts.)**, Southwest Corner Tenth and Spring Garden streets, Philadelphia. Architect, J. Frank Clarke, 23 South Sixteenth street, Philadelphia. Owner, Harry Farber, on premises. Brick, structural steel, new bulks, mill work, plate glass, painting, sheet metal work. Architect ready for bids.

**Alterations**, 219 South Broad street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, W. E. Adams Argood Chocolate Co., on premises. General alterations, mill work and carpentry, plastering. Plans in progress.

**Junior High School**, Southeast Corner Twenty-third and Federal streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick and concrete. Owner will be ready for bids in a few days.

**Apartment House**, Broad street, between Sixty-fifth and Sixty-sixth avenues, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owners, Fox Brothers, 4814 North Broad street, Philadelphia. Brick, stone and steel, 3 stories, 80x125 feet, slag and Spanish tile roof, hardwood floors, steam or vapor heating, electric lighting, tile and marble work. Plans completed. Owner will build and is taking sub-bids.

**School Building**, Green street and School Lane Germantown, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Friends' School of Germantown, on premises. Hollow tile, plaster, 2 stories, 30x100 feet, slate roof. Owner ready for bids.

**Apartment (alts.)**, 4027 Chestnut street, Philadelphia. Architect, C. Henry Wilson, 2022 Berks street, Philadelphia. Owner, G. Edward Dickerson, 628 South Sixteenth street, Philadelphia. Hot water heat, electric lighting, metal lath, tile work, plumbing, hardwood floors. Owners taking sub-bids.

**Apartment and Store (add.)**, 4435 Baltimore avenue, \$12,000. Architect, I. W. Levin, 1001 Chestnut street, Philadelphia. Owner, Benjamin Miller, 606 South Second street, Philadelphia. Brick, 3 stories, 28x159 feet, slag roof, hardwood and yellow pine floors, electric light, tile work. Owner will build.

**Theatre (alts.)**, Southwest Corner Nineteenth and Market streets, \$6,000. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, The Stanley Co., on premises. Carpentry and mill work. Architects will take sub-bids.

**Residence and Garage**, Rosemont and Lorraine avenues, Ardmore. Architect, Walter K. Durham, 1345 Pine street, Philadelphia. Owner, Joseph Matz, 207 Lincoln avenue, Collingdale, Pa. Stone, 2½ stories, 28x45 feet, garage, 1 story, 24x20 feet, hot water heat, electric light, electric lighting, tile and marble work, hardwood floors, slate roof, cement work. Owner will build.

**Apartment House**, Northeast Corner Forty-third and Walnut streets, Philadelphia. Architect, Charles Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, cut stone, reinforced concrete, 10 stories and basement, 215x135 feet, steam heat, electric light, slag roof, oak and yellow pine, cement, metal lath, tile and marble work, copper skylights, hollow metal doors, bond, iron stairs, elevators, terra cotta, refrigeration plant, incinerator. Architect taking sub-bids.

**Residences and Stores (3)**, Wharton and Grove streets, Philadelphia. Architect, Engineer M. M. Boonin, 1506 North Alden street, Philadelphia. Owner, M. Bobloski,

3519 Wharton street, Philadelphia. Stone foundations, brick, slag roof, 2 stories, (1) 18x45 feet, (2) 16x47 feet 6 inches, hot water heat, electric light, pine and tile floors, tile and terrazzo work, metal ceilings, terra cotta flue lining. Architect taking bids due as soon as possible.

**Post Office (alts.)**, Ninth and Chestnut streets, Philadelphia. Architect, James A. Wetmore, Supervising Architect, Treasury Department, Washington. Owners, Treasury Department, Office of Supervising Architect, Washington, D. C. Remodeling and refinishing rooms. Owner taking bids due August 2nd, 3 P. M. Plans can be obtained from Custodian of Building.

**Main Building (add.)**, Torresdale, Philadelphia. City Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Works, Bureau of City Properties, 592 City Hall, Philadelphia. General construction, electric light, plumbing, drainage, steam heat. Owner taking bids due July 30th, noon (standard time).

**Church and Parsonage**, Twenty-second street, between Nassau and Bolton Square. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owners, Miller Memorial Baptist Church, care of Rev. Wilkems E. Jones, 2107 Master street, Philadelphia. Stone, 1 and 2 stories, 80x95 feet. Architect taking bids on slight revision due as soon as possible.

**Pier No. 84 (completion)**, Porter street, South Wharves, Delaware River. Architect, private plans. Owners, Department Wharves, Docks and Ferries, Municipal Pier, No. 4, South Wharves, George F. Sproule, Director. Completion with appurtenant work. Deposit, \$25. Refund, \$25. Owners taking bids due July 27th at noon (standard time).

**Synagogue**, Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Har Zion Temple, care of architect. Stone, brick, cut stone, 1 story, gallery, basement, 90x60 feet, slate roof, pine floors, metal lath, tile and marble work, tinclad and kalamein doors, bond, iron work, terra cotta. Architect taking bids due July 30th, 4 P. M.

**Church**, Meadow street, Frankford, Philadelphia, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Second Baptist Church of Frankford, Philadelphia. Brick and stucco, 48x50 feet, hot water heat, electric light, slate roof, hardwood and pine floors. Architect taking bids due July 26th.

**Supplies**, Navy Yard, Philadelphia. Owners, Bureau of Supplies and Accounts, Navy Yard Department, Washington, D. C. Delivering, New England spruce and flooring tiling to Philadelphia Navy Yard. Owner taking bids due July 24th, 10 A. M. (standard time). Apply for proposals to Supply Officer, Navy

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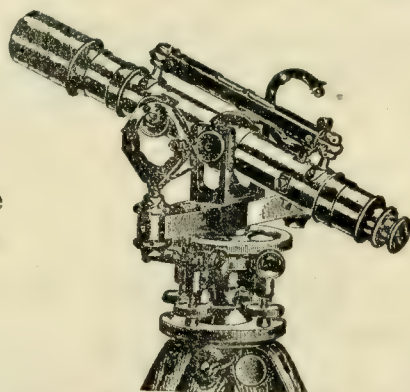
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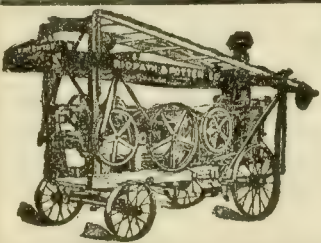
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**Hospital Building**, Byberry, Pa. Owners, Department of Public Health, Bureau of Hospitals, 584 City Hall. Underground telephone conduit. Low bidders: Vare Const. Co., 1120 Race street, Philadelphia, \$4,948; Geo Const. Co., 1510 Stiles street, Philadelphia, \$8,318.

**Supplies**, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Bituminous macadam paving, cast iron water pipe, pig lead, filter sand, (2) 35 H. P. vertical tubular boilers, C. O. X. E. stoker stare parts. Owners taking bids due July 31st, 11 A. M. (standard time). Apply Room 796.

**Residences and Garages (4)**, West side Camac street, North of Nedro, Philadelphia, \$6,000 each. Architect, private plans. Owners, Anchor Building Co., 5824 Camac street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x10 feet, slag roof, oak and pine floors, electric light, hot water heat. Owners will build.

**Storage and Tank Foundations**, North side Bigler, East Delaware avenue, \$25,000. Architect, private plans. Owners, Bisler Linseed Co., on premises. Brick, 1 story, 50x70 feet. Owner will build.

**Store, Storage Building and Garage**, South side Market, East of Forty-eighth street, Philadelphia, \$25,000. Architect, private plans. Owner, Louis Rosengarten, 5623 Race street, Philadelphia. Brick, 2 stories, 52x114 feet, slag roof, cement floors, steel sash, electric lighting. Owner will build.

**Residences (2)**, East side Hutchinson street, South of Duncannon, \$10,000. Architect, private plans. Owner, M. A. Dougherty, 5132 North Hutchinson street, Philadelphia. Brick, 3 stories, 40x27 feet, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, 7540 Williams avenue, Philadelphia, \$6,000. Architect, private plans. Owner, Arthur M. Lance, 2050 Haines street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Owner will build.

**Manufacturing Building**, Southeast Corner Tackawanna and Foulkrod streets, \$3,500. Owner, R. G. Pechin, 1814 Harrison street, Philadelphia. Brick, 1 story, 20x80 feet, slag roof, electric work. Owner will build.

**Residence**, 8017 Winston Road, Philadelphia, \$7,000. Architect, private plans. Owners, Lounzon Brothers, 17 East Abington avenue, Philadelphia. Brick, 3 stories, 24x33 feet and 21x8 feet, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, 7215 Lawndale avenue, Philadelphia, \$5,000. Architect, private plans. Own-

er, G. Weber, 7251 Lawndale avenue, Philadelphia. Frame, 1 story, 25x45 feet, electric light, oak and pine floors. Owner will build.

**Residences (2)**, 2095-97 Granite street, Philadelphia, \$4,500 each. Architect, private plans. Owner, Harry J. Meder, 5031 Jackson street, Philadelphia. Brick, 2 stories, 14½x26½ feet, 11½x12½ feet, slag roof, electric work, oak and pine floors. Owner will build.

**Residence**, South side Byberry Road, West of Bustleton avenue, \$8,000. Architect, private plans. Owner, Charles D. Silcox, 2259 Orthodox street, Philadelphia. Brick, 2 stories, 24x41 feet, 27x16 feet, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (38)**, Fifty-sixth and Malvern avenue, Philadelphia, \$370,000. Architect, private plans. Owners, Marshall Const. Co., 1115 Marlyn Road, Philadelphia. Brick, 2 stories, 19x35 feet, 19x36 feet and 21x35 feet, slag roof, hardwood floors, electric lighting, hot water heating, tile work. Owners will build.

**Residences (2)**, East side Tulip, North of Comly street, \$4,000. Architect, private plans. Owner, Oswald H. Thompson, 6608 Marsden street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (2)**, 3604-06 North Thirty-fifth street, Philadelphia, \$6,000. Architect, private plans. Owners, C. M. Swartley Co., 6835 Ridge avenue, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Owner will build.

**Residence**, Oakmont street and Rising Sun avenue, \$4,700. Architect, private plans. Owner, Robert M. Trevesdale, 3853 North Percy street, Philadelphia. Frame, 2 stories, 24x29 feet, hardwood and pine floors, electric lighting, tile work. Owner will build.

**Garage**, East side Sixty-second street, North of Walnut street, Philadelphia, \$4,000. Architect, private plans. Owner, Jacob Chandross, 4127 Girard avenue, Philadelphia. Brick, 1 story, 28x16 feet, slag roof, cement floors. Owner will build.

**Residences (11)**, North side Meehan street, West of Boyer, \$7,000 each. Architect, private plans. Owner, Bart Lauriston, 222 East Mount Pleasant avenue, Philadelphia. Brick, 3 stories, 16x30 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (18)**, East side Fourth street, South of Nedro, \$5,000 each. Architect, private plans. Owner, John M. Snyder, Fourth and Nedro avenue, Philadelphia. Brick, 2 stories, 15x30 feet, 11x8 feet, slag roof, oak

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and pine floors, hot water heat, electric light. Owner will build.

**Residence**, East side Eighty-fifth street, North of Tinicum avenue, \$3,000. Architect, private plans. Owner, John Scholtz, Eighty-fifth and Tinicum avenue, Philadelphia. Brick, 2 stories, 15x38 feet, hot water heat, electric light. Owner will build.

**Garage**, North side Lycoming avenue, East of Fifth street, Philadelphia, \$2,500. Owners, North Philadelphia Coal Co., on premises. Brick, 1 story, 20x40 feet, slag roof, cement floors, electric lighting. Owner will build.

**Store and Two-Family Residence (alts.)**, 700 South Eighteenth street, \$2,000. Architect, private plans. Owner, Lewis Cohen, 2nd, on premises. General alterations. Owner will build.

**Supplies**, Philadelphia. Owners, City of Philadelphia, T. F. Armstrong, Purchasing Agent, 312 City Hall. Lumber, roofing slate. Owner taking bids due July 30th, 11 A. M. (standard time).

**School Building**, Green street and School Lane, Germantown, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Friends School of Germantown, on premises. Architect taking bids due August 6th, 3 P. M.

**Store (5) (alts.)**, Seventeenth and Columbia avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia.

Owner, Adolph Freidman, 1637 West Columbia avenue, Philadelphia. Plans in progress. General alterations.

**Residence (alts.)**, 2115 Locust street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, J. K. Loughlin, Stephen Girard Building, Philadelphia. Steel and iron work, concrete work, slag roof, carpentry and mill work, hardware, plastering, tile work (heating, plumbing and electric reserved). Architect taking bids due July 26th.

**Cambria Theatre (alts.)**, Twenty-eighth and Cambria streets, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owner, George Nordasher, on premises. Brick and steel, electric light, metal lath, marble work, fire doors, bond, floor hardener, cement floors. Architects taking bids.

**Garage and Service Station**, 2221-23-25 North Broad street, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Reinforced concrete, 4 stories, 70x151 feet. Architect taking bids due July 30th.

**Office Building (alts. and add.)**, 221 South Seventeenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Kershaw & Crawl, 5251 Chestnut street, Philadelphia. General alterations. Plans in progress.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

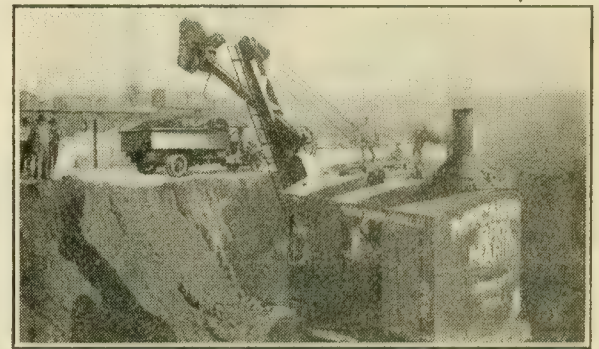
**Warehouse**, Thirtieth and Walnut streets, Philadelphia. Architect, private plans. Owners, Fairlamb Co., 115 South Thirtieth street, Philadelphia. Brick and steel, 1 story, 160x60 feet, slag roof, cement floors, electric light, rolled steel sash, bond, waterproofing. Contract awarded to Franklin M. Harris Co., 1520 Parrish street.

**Office Building**, Fourth and Walnut streets, Philadelphia. Architect, Frank Watson, 1211 Walnut street, Philadelphia. Owners, General Accident, Fire & Life Assurance Corp., George E. Edkins and W. H. Thompson, Fourth and Walnut streets, Philadelphia. Concrete, stone, brick, cut stone, castone, precast stone, steel, 10 stories and basement, 98x73 feet, steam heat, electric light, metal lath, marble work, rolled steel sash, copper skylight, hollow metal doors, bond, iron work, Barrett specification roof, cement floors, hollow tile, elevators, steel stack. Contract awarded H. John Homan Co., 1701 Chestnut street, Philadelphia.

**Madonna House**, Christian street, near Tenth street, Philadelphia. Architect, Charles

J. Cumiskey, 118 West Sharpnack street, Philadelphia. Owners, Catholic Missionary Society, Rev. Edward T. Lyng, Director, St. Paul's Roman Catholic Church, Tenth and Christian streets, Philadelphia. Brick, steel, limestone, cut stone, 3 stories and basement, 43x70 feet, slag roof, granolithic, maple and pine floors, safety treads, metal window guards, metal lath, marble work, hollow metal doors, bond, iron work (heating, electric fixtures and fly screens reserved), electric work. Contract awarded to W. R. Dougherty, 1610 Sansom street, Philadelphia.

**Research Laboratory Building**, Corinthian and Girard avenues, \$300,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Lankenau Hospital, on premises. Brick, steel, cut stone and blue-stone, 2 stories and basement, 104x54 feet,



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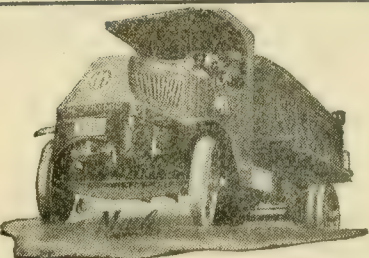
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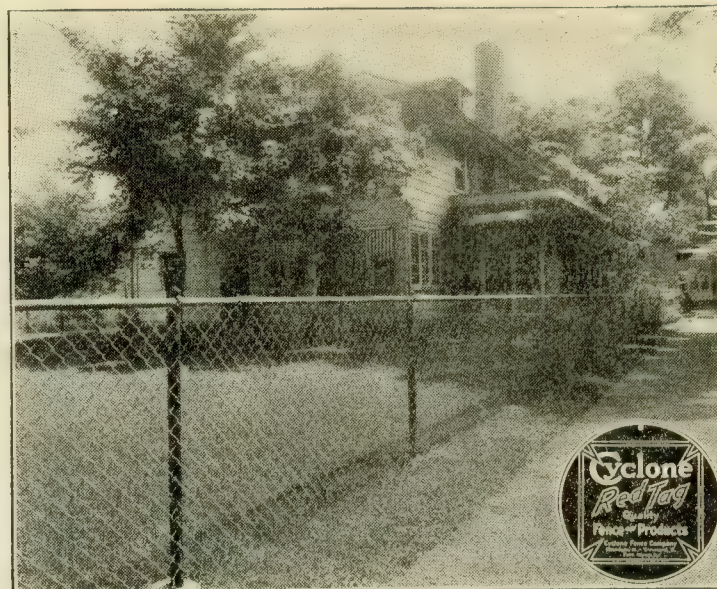
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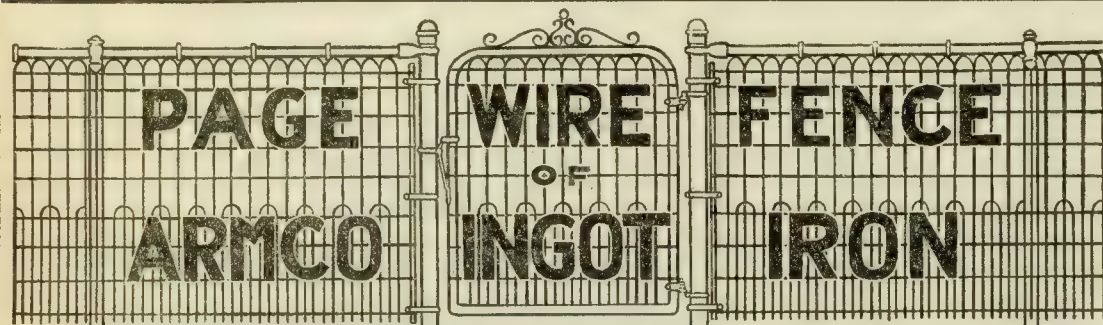


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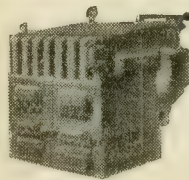
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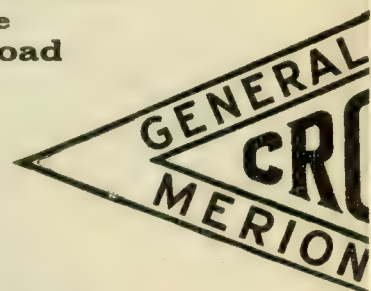
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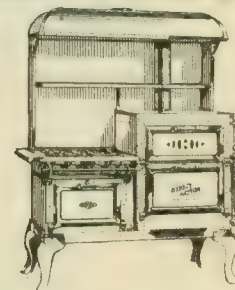
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slag roof, cement floors, elevators, waterproofing, iron work, bond, hollow metal doors, rolled steel skylights, tile and marble work, terrazzo work, metal lath, electric lighting, steam heating. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

**Stone Garage**, 200 West Walnut Lane, Philadelphia. Architect, Horace Wells Seller, 1301 Stephen Girard Building, Philadelphia. Owner, George D. Feidt, 244 North Fifth street, Philadelphia. Stone, 1½ stories, 24x24 feet, hot water heat, electric light, slate roof, cement floors, rolled steel sash, bond. Contract awarded to S. Harting & Son, 20 East Johnson street, Philadelphia.

**Warehouse**, 233-35 Callowhill street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Beyer Co., on premises. Reinforced concrete, brick, cut stone, 4 stories and basement, 60x31 feet, slag roof, cement floors, hollow tile, rolled steel sash, fire, kalamein and rolled steel doors, bond, floor hardener, iron work, terracotta. Contract awarded to Fred A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Apartment House**, 233-35 East Johnson street, Philadelphia. Engineer, George F. Pawling, 1432 South Penn Square, Philadelphia. Owner, H. E. Norbon, 237 East Johnson street, Philadelphia. Brick and steel, stone, 3½ stories, 33x93 feet, steam heat, electric light, metal lath, tile work, slag roof, oak and yellow pine floors, kitchen equip-

ment. Contract awarded to George Pawling, 1432 South Penn Square, Philadelphia, who is taking sub-bids due as soon as possible.

**Apartment House (alts.)**, 237-39 East Johnson street, Philadelphia. Engineer, George F. Pawling, 1432 South Penn Square, Philadelphia. Owner, H. E. Norbon, on premises. Brick, stone, 3½ stories, 34x90 feet, steam heat, electric light, oak and yellow pine floors. Contract awarded George F. Pawling, 1432 South Penn Square, who is taking sub-bids due as soon as possible.

**Residence**, 1917 Panama street, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Ferrie Brinton, care of architect. Limestone, bluestone, brick, steel and granite, 3 stories, 50x16 feet (heating and electric reserved), tin roof, oak and yellow pine floors, plumbing, iron work, bond, rolled steel sash and skylights, metal lath. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

**Factory**, Bristol, East of Wayne avenue, Philadelphia, \$25,000. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, E. Stanley Perkins, care of architect. Brick, cut stone, 1 story, 117x115 feet, slag roof, cement floors, roof ventilators, bond, ornamental iron work, wire window guards, cold water painting, waterproofing, rolled steel doors. Contract awarded to H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

**Apartment House**, 244-46 East Johnson

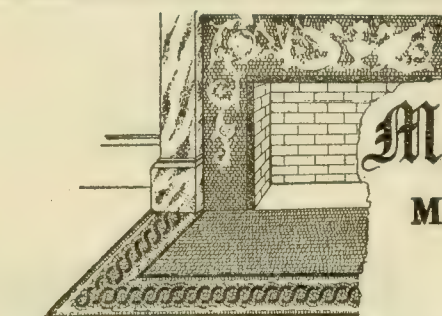
street, Philadelphia. Engineer, George F. Pawling, 1432 South Penn Square, Philadelphia. Owner, M. C. Indahl, care of engineer. Stone, brick, 3½ stories, 33x93 feet, steam heat, electric light, slag roof, oak and yellow pine floors, metal lath, tile work. Contract awarded to G. F. Pawling, 1432 South Penn Square, who is taking sub-bids due as soon as possible.

**Apartment House (alts.)**, 248-50 East Johnson street, Philadelphia. Engineer, George F. Pawling, 1432 South Penn Square, Philadelphia. Owner, M. C. Indahl, care of engineer. Stone, 2½ stories, 34x80 feet, steam heat, electric light, metal lath, tile work, slag and slate roof, oak and yellow pine floors. Contract awarded George F. Pawling, 1432 South Penn Square, who is taking sub-bids due as soon as possible.

**Alterations and Additions**, 1621 Spruce street, Philadelphia, \$9,850. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia; Charles Barton Keen, Winston-Salem, N. C. Brick, cut stone, cement work, carpentry and mill work, metal door frames, iron work, plastering, painting, hardware, tin roof. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

**Mezzanine Floor Addition**, Northeast Corner Twentieth and Chestnut streets, \$8,000. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Miss Elizabeth Hummel, Northeast Corner Nineteenth and Chestnut streets. Mezzanine floor, carpentry, mill work, plastering, concrete work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

**Residence (alts. and add.)**, Southwest Corner Twenty-second and Manning streets, \$11,500. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, Miss M.



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Faulkner, The Gladstone, Philadelphia. Brick, 1 story, 5x28 feet, slag roof, oak and yellow pine floors, hot water heat, electric light. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

**Residence**, West side Houghton street, North of Jamestown street, \$10,000. Architect, private plans. Owner, Robert Curry, 611 Rector street, Philadelphia. Brick, 2 stories, 17x20 feet, 20x10 feet, slag roof, electric work, hardwood and pine floors. Contract awarded to C. M. Swartley & Son, 6935 Ridge avenue.

**Residence (alts.)**, 324 South Smedley street, Philadelphia, \$4,000. Architects, Seeburger & Rabenold. Owner, David Dubinsky, on premises. General alterations, carpentry, mill work, plastering. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street.

**Bungalow**, Mountainhome, near Cresco, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Mrs. Jacob Felton, on premises. Wood shingle, asphalt shingle roof, 40x30 feet, rustic porch, stone pier foundations. Contract awarded to William Vernoy, Canadensis, Pa.

**Shop**, North side Hunting Park avenue, West of Twenty-eighth street, \$6,000. Architect, private plans. Owners, The Tasty Baking Co., 2801 Hunting Park avenue, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, cement floors, steam heat, electric light, floor hardener, iron work. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Garage**, South side Johnson street, West of Morton street, Philadelphia, \$13,000. Architect, private plans. Owner, Harry W. Scattergood, Lincoln Building, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric work. Contract awarded to William Cooper, 90 East Johnson street, Philadelphia.

**Store Building (alts. and add.)**, 710 Sansom street, Philadelphia, \$7,500. Architects, Tunis & Genther, 1423 Locust street, Philadelphia. Owner, S. Vederman, 725 Sansom street, Philadelphia. General alterations, 3 story building, hot water heat, electric light, plumbing, new partitions, skylights, painting, glazing, carpentry, mill work, plastering, pine floors. Contract awarded to Pennsylvania Woodworking Co., 911 Walnut street.

**Power House**, Southwest Corner Leverington and Wilde streets, \$3,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Fred Pearson & Co., on premises. Brick, 1 story, 37x22 feet, cement floors, metal lath, rolled steel skylights, metal covered doors. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

**Residences (2) and Store**, Bleigh and Lawndale streets, \$17,000 total. Architect, private plans. Owners, W. F. Newcomb, 4938 North Hutchinson street, Philadelphia. Brick, 2 sto-

ries, 18x60 feet, and 2 stories, 16x42 feet, slag roof, hardwood and pine floors, electric lighting, tile work. Contract awarded to H. E. Sweager, 4435 North Uber street, Philadelphia.

**Public School (add.)**, Fairmount avenue, West of Twelfth street, \$13,900. Architect, private plans. Owners, Board of Education, Nineteenth street above Chestnut, Philadelphia. Brick, 1 story, 10x15 feet, 12x24 feet, slag roof, cement floors. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**School (alts.)**, North side Sansom street, East of Thirty-sixth street, \$6,600. Architect, private plans. Owners, Board of Education, Nineteenth street above Chestnut, Philadelphia. General alterations, cement work, brick work. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Residence**, West side Rising Sun avenue, North of Unruh street, \$6,500. Architect, private plans. Owner, Robert Myers, on premises. Brick, 2 stories, 16x40 feet, hardwood and pine floors, electric light, tile work. Contract awarded to Jacob Gaertner, 7225 Oxford avenue, Philadelphia.

**Building (repairs)**, Southeast Corner Eleventh and Washington avenue, \$10,000. Architect, private plans. Owner, C. V. Roberts, Roberts & Mander Stove Co., on premises. General fire repairs. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

**Fraternity Building**, 3908 Spruce street, Philadelphia, \$18,000. Architect, private plans. Owners, Pennsylvania Theta Association, on premises. Brick, 3 stories, 30x60 feet, slag roof, oak and yellow pine floors, hot water heat, electric light, tile work. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Residence**, North side Gates street, West of Lawnton avenue, \$8,000. Architect, private plans. Owner, Flora M. Harmer, 249 Dupont street, Philadelphia. Brick, 2 stories, 32½x44 feet, tile work, hardwood and pine floors, electric lighting. Contract awarded to Achille Andrews, 243 Lauriston avenue.

**Residence**, Northeast Corner Bingham and Loretta streets, Philadelphia, \$6,500. Architect, private plans. Owner, Hilborn Ayars, 925 Wyoming avenue, Philadelphia. Frame, 2 stories, 26x29 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to Nevelin Brothers, 121 Sylvania avenue.

**Residences (2) (add.)**, 2105-07 East Cheltenham avenue, \$9,500. Architect, private plans. Owners, J. J. Mullins & J. Delaney, 5301 Chestnut street, Philadelphia. Brick, 1 story,

16x20 feet, slag roof, hardwood floors, electric lighting. Contract awarded to Maurice C. Manthey, 802 East Washington avenue.

**Residence**, Northwest Corner Bleigh & Claridge streets, Philadelphia, \$8,000. Architect, private plans. Owner, Edward L. Koenig, 7036 Rising Sun avenue, Philadelphia. Frame, 3 stories, 26x36 feet, 13x8 feet, hardwood floors, electric light, tile work. Contract awarded to H. W. Myers, 5814 Hasbrook avenue, Philadelphia.

**Garage**, South side Montour street, West of St. Vincent street, \$6,500. Architect, private plans. Owner, H. Dane, 7332 Palmetto street, Philadelphia. Frame, 1 story, 25x45 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to G. Weber, 7251 Lawndale avenue, Philadelphia.

**Residence**, North side Emerson street, West of Castor Road, \$5,500. Architect, private plans. Owner, Irvin Peoples, Bethlehem Pike, North of Rhawn street, Philadelphia. Frame, 2 stories, 22x34 feet, electric light, oak and pine floors. Contract awarded to Weber S. Dool, 3007 Mercer street, Philadelphia.

**Two-Family Residence and Store (alts. and add.)**, 1629-31 Catharine street, Philadelphia, \$7,000. Architect, private plans. Owner, Samuel Karlene, on premises. Brick, 3 stories, 16x12 feet, slag roof, general alterations. Contract awarded to Joseph Eskin, 4106 Westmoreland street.

**Residence**, 723 Lawndale avenue, Philadelphia, \$5,500. Architect, private plans. Owner, Karl Konelius, 642 West Tusculum street, Philadelphia. Brick, 2 stories, 15x30 feet, slag roof, oak and pine floors, electric lighting. Contract awarded to George Ramsey, 22 Central avenue, Cheltenham, Pa.

**Garage**, 215 Collom street, Philadelphia, \$5,000. Architect, private plans. Owner, Frank Panetta, on premises. Brick, 1 story, 30x67 feet, slag roof, cement floors, electric work. Contract awarded to Nicholas Cannoe, 3029 North Twenty-second street.

**Stable**, North side Lindley avenue, West of Sixth street, Philadelphia, \$4,000. Owners, Accommodation Ice Co., on premises. Architect, private plans. Brick, 2 stories, 60x26 feet, slag roof, cement and pine floors. Contract awarded to Fanning-Schuett Eng. Co., Third and Cayuga streets.

**Garage**, North side Lindley avenue, West of Sixth street, \$2,000. Architect, private plans. Owners, Accommodation Ice Co., on premises. Brick, 1 story, 26x42 feet, slag roof, cement floors. Contract awarded to Fanning-Schuett Eng. Co., Third and Cayuga streets.

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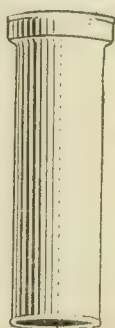
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delphia, \$2,000. Architect, private plans. Owner, V. Blosh, 237 Market street, Philadelphia. General alterations. Contract awarded to N. Benjamer, 241 Market street, Philadelphia.

**School (add.)**, Southeast Corner Twenty-eighth and Columbia avenue, Philadelphia, \$5,000. Architect, private plans. Owners, Board of Education, Nineteenth street, above Chestnut, Philadelphia. Brick, 1 and 2 stories add., 5x15 feet. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

**Residences (4)**, East side Mitchell street, North of Markle, \$4,500. Owner, Louise G. Missimer, 465 Markle street, Philadelphia. Brick, 2 stories, 20x30 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Harry Missimer, 465 Markle street, Philadelphia.

**Shop**, West side Sedgley avenue, North of Ontario street, Philadelphia, \$3,660. Architect, private plans. Owner, William K. Clarkson, 3535 North Fifth street, Philadelphia. Brick, 2 stories, irregular size, slag roof, pine floors. Contract awarded to Joseph T. Murphy, 1721 North Second street, Philadelphia.

**Residence (add.)**, 2726 Ridge avenue, Philadelphia, \$3,500. Architect, private plans. Owner, Max Caplan, 3222 Montgomery avenue, Philadelphia. Brick, 1 story, 4x28 feet, and 1 story, 16x12 feet, slag roof, pine floors, electric lighting. Contract awarded to P. Lutman, 2417 South Fourth street, Philadelphia.

**Garage**, 1331 North Conestoga street, Philadelphia, \$4,000. Architect, private plans. Owner, Frank Dorsey, on premises. Brick, 1 story, 20x56 feet, 27x10 feet, slag roof, cement floors. Contract awarded to J. D.

Fisher, 5424 Thompson street, Philadelphia.

**Residence (alts.)**, 6801 Haverford avenue, Philadelphia. Architect, private plans. Owner, Louis De Palma, on premises. General alterations. Contract awarded to Leopold Cavalier, 513 North Sixty-third street.

**Garage and Residence (alts. and add.)**, Northeast Corner Fifty-ninth and Hunter streets, Philadelphia, \$2,000. Owner, A. T. Geiger, on premises. **Basement garage add.**, 27x5½ feet, cement floors. Contract awarded to William J. Reimer, 1551 North Sixtieth street.

**Garages (2)**, Ontario street, East of Hurley street, \$3,100, and Northeast Corner Ontario and Hurley streets, \$3,000. Architect, private plans. Owner, Philip Jacobs, Northwest Corner Hurley and Ontario streets, Philadelphia. Brick, 1 story, 33x42 feet, and 1 story, 24x15½ feet, 16x44 feet, slag roof, cement floors, electric light. Contract awarded to A. E. Barnes, 2044 East Clementine street.

**Garage**, Southwest Corner Orefeldt and Moreland streets, Philadelphia, \$3,500. Architect, private plans. Owner, Harrison Frazier, on premises. Stone, 1 story, 21x27 feet, slate roof, cement floors. Contract awarded to George S. Roth & Son, 230 East Graver's Lane.

**Store (alts.)**, Southeast Corner Beechwood and Dickinson streets, \$2,500. Architect, private plans. Owner, Mr. Dopkin, on premises. Flush bulk windows. Contract awarded to J. Marshall, 2323 South Marshall street, Philadelphia.

**Residence and Store (add.)**, 105 South Forty-fifth street, Philadelphia, \$2,000. Architect, private plans. Owner, B. Poverly, on premises. Brick, 2 story add., 15x7 feet, pine floors, electric light. Contract awarded to Abe Lashner, 605 Tasker street, Philadelphia.

**Residence and Store (add.)**, 1966 North Thirty-first street, Philadelphia, \$2,000. Architect, private plans. Owner, D. Bernstein, on premises. Brick, second story add., 12x12 feet, slag roof, pine floors. Contract awarded to J. N. Schmuckler, 1961 North Stanley street.

**Residences (2) (alts.)**, 4327-29 Osage avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Thomas W. Cunningham, on premises. Carpentry and mill work. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Two-Family Residence (alts. and add.)**, 4822 Baltimore avenue. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, Herman Anderson, on premises. Brick, 3 stories, 10½x20 feet, slag roof, general alterations. Contract awarded to Potts Brothers & Cooperson, 1016 Cherry street.

**Apartment (alts.)**, 2043-45 Moravian street, Philadelphia, \$6,000. Architect, private plans. Owner, C. A. Wood, 035 Walnut street, Philadelphia. General alterations. Contract awarded to T. N. Keeley, 4411 Germantown avenue.

**School (alts.)**, Southeast Corner Gaul and

Hewson streets, \$5,150. Architect, private plans. Owners, Holy Name Parochial School, Rev. Gregory R. Scholtz, on premises. Carpentry, mill work, plastering. Contract awarded to M. Melody & Son, 1322 Race street, Philadelphia.

**Residence (add.)**, 1018 Clinton street, Philadelphia, \$2,500. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, John C. Groome, on premises. Brick, 1 story add., 15x14 feet. Contract awarded to H. H. Burrell, 206 South Quince street.

**Bank (alts.)**, Northeast Corner Nineteenth and South streets, Philadelphia. Architects, Tunis & Genter, 1423 Locust street, Philadelphia. Owners, Citizens' and Southern Bank, R. R. Wright, president, on premises. General alterations, new marble front. Contract awarded L. B. Thompson, 1327 Washington avenue. Marble work, Albert Cosenza, Sixteenth and Ellsworth streets, Philadelphia.

## Pennsylvania

### Construction News

**Barn**, Hatboro, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Orangemen's Home, Hatboro, Pa. Stone and frame, 2 stories, 30x60 feet, shingle roof, electric light, cement and plank floors, roof ventilators, hollow metal sash. Ready for bids in one week.

**Residence**, Oakmont, Pa. Architect, Walter K. Durham, 1435 Pine street, Philadelphia. Owner, M. Dyson, 208 State Road, Highland Park, Pa. Cinder block and stucco, 2½ stories, 28x35 feet, hot water heat, electric light, shingle roof, hardwood floors, tile and marble work. Owner will build.

**Residence**, Drexel Hill, Pa. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, Mrs. H. Hess, 727 Marlyn Road, Philadelphia. Stone, 2½ stories, 31x35 feet, hot water heat, electric light, tile roof, hardwood floors, tile and marble work, stone paving. Plans in progress.

**Garages (9 cars)**, West Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, John V. Seibert, care of Whitman Realty Co., Reading, Pa. Brick, 1 story, 33x45 feet, composition roof, cement floors, hot water heat, electric light. Plans in progress.

**Two-Car Garage**, Wyomissing, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, John V. Seibert, care of Whitman Realty Co., Reading, Pa. Brick, 1 story, 20x22 feet, shingle roof, cement floors, electric lighting. Plans in progress.

**Bank**, Reading, Pa., \$1,000,000. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Farmers' Bank 445 Penn street, Reading, Pa. Fireproof construction, 1 story. Preliminary plans in progress. Will be ready for bids next spring.

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Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Zion Lutheran Church, Rev. S. L. Gallenkamp, Frackville, Pa. Stone. Preliminary plans in progress.

**Church and Sunday School**, Front and Fisher streets, Oley, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Zion Lutheran Congregation, Rev. Vela Shetlock, Oley, Pa. Stone, 1 story and basement. Preliminary plans in progress.

**Residence**, Milltown, Pa. Architect, R. Brognard Okie, Crozer Building, Philadelphia. Owner, B. B. Baseler, Cynwyd, Pa. Architect selected. Too early for details.

**Residence**, Pennhurst, Mt. Penn, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, P. H. Eberle, 1238 Church street, Reading, Pa. Brick, cut stone, 2 stories, 30x40 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, sheet metal work. Architect taking bids due July 28th.

**School**, Watsonstown, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Johnstown School Board, David L. Bly, president, and Frank E. Kirk, secretary, Watsonstown, Pa. Brick, stone, 3 stories, 75x70 feet, built-up roof, pine floors, unit system heating, electric lighting, reversible sash, iron and steel work, bond. Deposit, \$15. Refund, \$15. Owners taking bids due August 15th at 7.30 P. M. at Fifth Street School Building.

**Manufacturing Building**, Steelton, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, People's Bank, Steelton, Pa. Brick, slow burning, 4 stories, 60x105 feet, slag roof, pine floors, steam heat, electric lighting. Architect and owners taking bids due July 27th.

**Club House**, Ardmore, Pa. Architect, Walter K. Durham, 1345 Pine street, Philadelphia. Owners, Club, care of Dr. C. W. Barber, 12 Simpson Road, Ardmore, Pa. Frame and stucco, 1½ stories, 40x60 feet, hot water heat, electric light, shingle roof, pine floors, plumbing. Architect and owners taking bids due as soon as possible.

**Residence (alts.)**, 6446 Sherwood Road, Overbrook, Pa. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, W. W. Robinson, care of architect. Carpentry, masonry, heating repairs, concrete, cut stone, tile floors, painting, new porch and steps. Architect taking bids due as soon as possible.

**Bungalow**, Drexel Hill, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, W. Nicholson, Drexel Hill, Pa. Frame and shingle, 1½ stories, 30x28 feet, electric light, shingle roof, pine floors. Owner will build.

**Apartment House**, Church Lane, Ogontz avenue, Limekiln Pike, Pa. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owners, Sol. and Harry Faggen, 1118 Chestnut street, Philadelphia. Brick and steel, 3 stories and basement, 81x87 feet (plumbing, heating and electric reserved), slag roof, oak and pine floors, metal lath, terra cotta. Architect taking bids due July 27th.

**Paving**, Borough of Glenolden, Pa. Architect, A. F. Damon, Jr., Post Office Building, Upper Darby, Pa. Owners, Borough of Glenolden, F. H. Bonsall, Secretary of Council, Glenolden, Pa. Laying of cement and concrete sidewalks. Owners taking bids due August 1st, 8 P. M. (daylight saving). Certified check, \$100.

**Church (alts.)**, Drexel Hill, Delaware County, Pa. Architect, Herman Miller, 1420 Chestnut street, Philadelphia. Owners, Broad Street Memorial Methodist Episcopal Church, care of Rev. Henry Hess, D. D., Drexel Hill, Pa. Architect taking sub-bids due as soon as possible. George H. Evans taking bids on carpentry and mill work and masonry.

**Road Reconstruction**, Pennsylvania. Owners, State of Pennsylvania, Department of Highways, Harrisburg, Pa. Owners taking bids due August 7th at 10 A. M. for reconstruction of following roads. Plans, \$2.50 per set.

Beaver County, Appli. 2578, Center and Hopewell Townships, 2,303 feet. One course reinforced concrete. Certified check, \$1,000.

Delaware County, Route 133, Marple and Newtown Townships, 16,310 feet. Either bituminous surface course on concrete foundation, or one course reinforced concrete. Certified check, \$2,500.

Delaware County, A-1242 and 1249, Trainer Borough and Lower Chichester Township, 7,881 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Erie County, R-295, A-2316, 2317 and 2318, Elk Creek and Conneaut Townships and Cranesville Borough, 23,775 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Erie County, R-86 and 272, A-2327 and 2328, Fairview Township and Fairview Borough, 23,775 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Indiana County, A-2431, Burrell Township, 612 feet. One course reinforced concrete. Certified check, \$1,000.

McKean County, R-95, Spur A-2273, Wetmore Township and Kane Borough, 14,953 feet. One course reinforced concrete. Certified check, \$3,000.

Monroe County, A-2452, Pocono and Paradise Townships, 7,051 feet. Bituminous surface treated macadam. Certified check, \$1,000.

Northampton County, A-2227 and 2228, Upper Nazareth and Bushkill Townships, 15,527 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$3,000.

Northampton County, A-2355, Lower Mt. Bethel Township, 34,422 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

**Resurfacing Roads**. Owners taking bids due August 7th at 10 A. M.

Butler County, Route 73, Center and Butler Townships, 11,202 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Fayette County, Route 247, Dunbar Township, 10,855 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Greene County, Route 111, Franklin Township, 12,017 feet. Either bituminous surface course, Spec. "D" (base course to be reconstructed by the State Highway Department and is not included in the proposal). Certified check, \$1,000.

Tioga County, Route 196, Richmond and Covington Townships, 13,977 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

**Road Reconstruction**, Pennsylvania. Owners, State of Pennsylvania, Department of Highways, Harrisburg, Pa. Owners taking bids due August 8th at 10 A. M.

Dauphin County, Route 1, Halifax and Upper Baxton Townships, 3,199 feet. One course reinforced concrete. Certified check, \$1,000.

Delaware County, A-2573-74-75, Springfield, Marple and Upper Providence Townships, 18,206 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$3,000.

Erie County, R-258, A-2331-32-34, Mill Creek, Summit and McKean Townships and Middleboro Borough, 27,876 feet. Either bi-

tuminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Erie County, R-258, A-2357, Washington Township, 7,731 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Lehigh County, Route 163, Slatington Borough, 3,666 feet. Concrete and brick. Certified check, \$1,000.

McKean County, Route 211, Appli. 2369, Otto and Foster Townships, 15,654 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$3,000.

Monroe County, Route 167, Appli. 2195, East Stroudsburg Borough, 6,397 feet. Either vitrified brick on concrete foundation or bituminous surface course on concrete foundation. Certified check, \$2,000.

Northumberland County, Point Township and Montour County, Mahoning Township and Danville Borough, Route 2, 15,659 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$3,000.

Northumberland County, Appli. 2222-23-24, Washington and Plainfield Townships and Bangor Borough, 42,580 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$4,000.

Susquehanna County, Appli. 2513, Montrose Borough, 1,030 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$1,000.

York County, Route 124, Appli. 2178, Dover Borough, 3,749 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

**Road Resurfacing**, Pennsylvania. Owners taking bids due August 8th at 10 A. M.

Armstrong County, Route 69-70, South Buffalo Township and Butler County, Route 70, Buffalo Township, 14,368 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$2,000.

Fayette County, R-247, Perry Township, 12,994 feet. Bituminous macadam (penetration method). Certified check, \$1,500.

Northampton County, Route 175, Upper Nazareth Township, 20,005 feet. One course reinforced concrete. Certified check, \$2,500.

Washington County, Route 108, North Strabane Township, 7,272 feet. Either bituminous macadam (penetration method) or bituminous surface course on reconstructed base course. Certified check, \$1,000.

**Building (alts.)**, Third and Locust streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg. Owners, Security Trust Co., J. O. Porrmann, president, premises. General alterations, tile and marble work, bronze work. Preliminary plans in progress.

**Residence**, York, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owner, F. H. Bierman, 646 Cleveland avenue, York, Pa. Brick, 2½ stories, 26x39 feet, slate roof, hardwood floors, vacuum heat, electric light, tile work. Architect will be ready for bids in one week.

**Tuberculosis Hospital Building**, West Mountain, Scranton, Pa. Architect, David H. Morgan, 426 Connell Building, Scranton, Pa. Owners, County of Lackawanna, Ranson Township, Scranton, Pa. Brick, concrete, cut stone, steel, 2 stories and basement, 97x46 feet (plumbing, heating and electric separate), slag roof, cement, yellow pine and composition floors, hollow tile, roof ventilators, damp-proofing, terra cotta, ornamental iron work, floor hardener, bond, rolled steel sash, tile and marble work, metal lath, steel lumber. Architect taking bids due August 1st.



**Orphanage**, Orwigsburg, Schuylkill County, Pa. Architect, Paul Monaghan, 1713 Sansom street, Philadelphia. Owners, St. Francis' Orphans' Asylum, on premises. Brick, cut stone, steel and reinforced concrete, 3 stories and basement, 270x72 feet, wing 86x55 feet, 40x51 feet, slate composition, promenade, tile roof, cement, oak and maple floors, metal lath, rolled steel sash and skylights, roof ventilators, waterproofing, bond, iron stairs and work (heating, plumbing, electric, elevators, kitchen equipment, bakery and laundry equipment reserved). Architect will take new bids in a few months.

## Pennsylvania Contracts Awarded

**Junior High School**, Seitz avenue and Berwick street, Easton, Pa. Architects, William Michler and J. W. Shnyder, Drake Building, Easton. Owners, School District, City of Easton, R. E. Peifer, secretary, 30 North Second street, Easton, Pa. Stone, 2 stories and basement, 110x235 feet, maple floors, concrete floors, hollow tile, metal lath, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, rolled steel sash, bond, floor hardener, iron stairs (heating and ventilating, plumbing and electric wiring separate bids). Contract awarded to Benjamin Rymon, Phillipsburg, N. J., \$285,324, but not yet signed.

**Allentown Central Office Building (int. alts.)**, Loudon and Hale streets, Allentown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash and doors, kalamein doors, bond, iron work and stairs, carpentry and mill work, plumbing, hardware, hollow tile, cork and tile floors, kitchen equipment. Contract awarded to Franklin M. Harris Co., 1520 Parrish street.

**Manufacturing Building**, Ambler, Pa. Architect, Harry F. Rishel, care of owner. Owners, American Chemical Paint Co., J. H. Gravel, 1126 South Eleventh street, Philadelphia. Brick, reinforced concrete, slate, 82x98 feet, 2 stories (heating, elevators reserved), slag roof, cement and plank floors, rolled steel sash, bond, iron work. Contract awarded to Behling Bush Co., Drexel Building.

**School (alts. and add.)**, Reading, Pa. Architect, Fred Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, Lee Stewart School, care of architect. Brick and frame, 2 stories, 20x50 feet, composition roof, hardwood floors, steam heat, electric light, general interior alterations. Contract awarded to William R. Fromm, 706 North Thirteenth street, Reading, Pa.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, Department of Highways, Harrisburg, Pa.

York County, Route 216, Section 3, A-2175, Lower Chanceford Township, 26,812 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$235,182.78. Contract awarded to Comerford Const. Co., Fifth and Sansom streets, Philadelphia.

Clarion County, Routes 214 and 311, A-1940, Sligo Borough, 5,187 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete, \$55,397.20. Contract awarded to Thomas W. Munro & Co., Dubois, Pa.

**Convent**, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Parish, Rev. George J. Breckel, 309 South George street, York, Pa. Brick, 2½ stories, 30x60 feet, slate roof, hardwood floors, electric light. Contract awarded to F. H. Wagaman, York, Pa.

**Factory**, Stewartstown, Pa. Architect, H. E. Yessler, Rupp Building, York, Pa. Owners, Hopewell Furniture Co., on premises. Slow burning construction, 3 stories, 86x150 feet, slag roof, electric light, elevators, rolled steel sash and skylights, fire doors, waterproofing, iron stairs. Contract awarded to J. Wickersham, Breneman Building, Lancaster, Pa.

## New Jersey Construction News

**School**, Northfield, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Northfield School Board, Pleasantville, N. J. Brick. Preliminary plans in progress.

**Industrial School**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Atlantic City School Board, H. Young, secretary, Atlantic City, N. J. Brick, 3 stories, 43x125 feet, reinforced concrete roof, hardwood floors (heating, electric work and plumbing reserved), rolled steel sash and skylights, roof ventilators. Plans in progress.

**Stores (alts.)**, Michigan and Atlantic avenues, Atlantic City. Architects, Dobbins & Schmidt, Segal Building, Atlantic City, N. J. Owner, care of architects. New front, copper work, plate glass, general interior alterations, tile and marble work. Plans in progress.

**Residence (alts. and add.)**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Dr. Horace D. Bellis, 437 East State street, Trenton, N. J. Brick, 1 story operating room addition, composition floors, tile work, general interior alterations. Plans in progress.

**Apartments**, Atlantic City, N. J. Architects, Dobbins & Schmidt, Segal Building, Atlantic City, N. J. Owner, H. Hoffman, 1809 Atlantic avenue, Atlantic City, N. J. Brick, stone, 3 stories, 42x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal lath, waterproofing, ornamental iron work. Plans in progress. Owner will sub-let.

**Apartment**, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mr. Brilliant, States avenue, Atlantic City, N. J. Fireproof, 6 stories, 40x112 feet, slag roof, hardwood floors, metal lath, tile work, hollow tile, electric light. Architect will be ready for bids next week.

**Boiler House and Laundry**, Atlantic City, N. J. Associate architects, H. A. Stout, J. V. Mathis and J. H. Vaughan, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Hospital, care of Mr. J. Moore, South Ohio avenue, Atlantic City, N. J. Brick, concrete and steel, 2 stories, 50x55 feet, slag roof, concrete floors, electric light, rolled steel sash and skylights, fire doors, waterproofing and dampproofing. Plans in progress. Architects will be ready for bids in ten days.

**Bank Building**, Eighth and Ashbury avenue, Ocean City, N. J. Architects, P. A. Davis, 3rd, and Dunlap, 1713 Sansom street, Philadelphia. Owners, Ocean City Title & Trust Co., Ocean City, N. J. Stone and rock, steel and concrete. Plans completed. Architects will be ready for bids in two weeks.

**Residences (2)**, De Klyn street, Trenton, N. J., \$6,000. Architect, private plans. Owner, Fred Reiger, 1228 South Broad street, Trenton, N. J. Brick and frame, 2½ stories, 14x40 feet, slate roof, pine floors, electric lighting. Owner will build.

**Pumping Station**, Audubon, N. J. Architect, private plans. Owners, Borough Commissioners, J. W. Zanger, Director of Highways, Northeast Corner Central and Marchant

streets, Audubon, N. J. Furnish and installing two vertical centrifugal sewerage pumps. Owners taking bids due July 24th, 8.30 P. M. (daylight saving). Commissioners' Chamber, School No. 2.

**Road Work**, Absecon Boulevard, Atlantic City, N. J. Engineer, County Engineer, 626 Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Chosen Freeholders of Atlantic County, Atlantic City, N. J. Asphalt block on concrete, 106,000 square yards surface, 109,000 square yards concrete base, bond. Owners taking bids due August 8th.

**Bridge**, Independence, Warren County, N. J. Engineer, John L. Vogel, 772 Broad street, Newark, N. J. Owners, State Highway Commission of New Jersey, A. L. Grom, Trenton, N. J. Steel, 3 span, bond. Owners taking bids due August 2nd.

**Water Works**, Stone Harbor, N. J. Engineer, Joseph L. Sweigard, 1120 Lincoln Building, Philadelphia. Owners, Borough Council of Stone Harbor, N. J. Pumping station, reinforced concrete reservoir, artesian wells, bond. Owners taking bids due August 6th at 9 P. M.

## New Jersey Contracts Awarded

**School**, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Board of Education, C. Smith, secretary, Pleasantville, N. J. Brick, concrete, 1 story, 56x90 feet, slate roof, reinforced concrete floors, hollow tile, metal lath, roof ventilators, waterproofing, dampproofing, iron work. Contract awarded to J. Green, Pleasantville, N. J.

**Factory**, Trenton, N. J., \$80,000. Architect, private plans. Owners, Hamilton Rubber Mfg. Co., Mead and Prince streets, Trenton, N. J. Reinforced concrete and brick, 4 stories, 72x274 feet, slag roof, electric light, elevators, roof ventilators, rolled steel sash, fire doors, iron stairs. Contract awarded to Karno-Smith Co., Broad St. Bank Building, Trenton, N. J.

**Parochial School**, Seventh and Federal streets, Camden, N. J. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Immaculate Conception Roman Catholic Church, care of Rev. J. Fitzgerald, Camden, N. J. Stone, 2 stories and basement, 110x65 feet, slag roof, pine floors, steam heat, electric light, iron work. Contract awarded Sutton & Stephenson, 1317 Washington avenue.

**Annex**, Metuchon, N. J. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Joseph's Novitiate, Metuchon, N. J. Brick, cut stone, castone and steel, 3 stories, 105x43 feet, slate roof, composition, cement and pine floors, roof ventilators, slate roof, metal ceilings, iron work and stairs, floor hardener, bond, kalamein floors, rolled steel sash. Contract awarded Walter J. Meagher, Perth Amboy, N. J.

**Manufacturing Building**, Jefferson street, Camden, N. J. Architect, private plans. Owners, McAndrew & Forbes, Third and Jefferson streets, Camden, N. J. Brick and steel, 1 and 2 stories, 60x160 feet, slag roof, cement floors, rolled steel sash and skylights, fire doors, iron work. Contract awarded to Barclay White Co., Presser Building, Philadelphia.

**Apartments and Stores**, 1551 Hamilton street, Trenton, N. J., \$40,000. Architect, private plans. Owner, Sarah A. Bendal, 1158 Hamilton street, Trenton, N. J. Brick, 3 stories, 45x62 feet, slag roof, hardwood floors, hot air heating, electric lighting, tile work. Contract awarded to Griffith & Watkins, 322 South Cook street, Trenton, N. J.

**Residence**, 1850 South Clinton street, Tren-



ton, N. J., \$6,500. Architect, private plans. Owner, W. W. Smith, care of builder. Frame and concrete block, 20x32 feet, tile roof, hardwood floors, electric lighting. Contract awarded to Carl Poinsett, 37 Maple avenue, Trenton, N. J.

## Miscellaneous Construction News

**Residence**, College Park, Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owner, Thomas H. Haller, College Park, Frederick, Md. Brick, 2½ stories, 40x30 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 18, 1923. Sealed Proposals will be opened in this office at 3 P. M., August 2, 1923, for remodeling and refinishing certain rooms in the Post Office and Court House, at Philadelphia, Pa. Drawing and specification may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

## GOOD ARCHITECTURE SHOULD EXPRESS THE SPIRIT OF THE COMMUNITY

(Continued from Last Week)

The selection of the type of architecture with which we express a building for our client is seldom if ever based on a deep conviction rarely if ever does the client bring any intelligent reason to bear on why he wants one type of building rather than another; the only demand he makes is that it be entirely dissimilar to any building in the vicinity. How, then, is it possible for us to obtain beauty in the total effect of our buildings if we cannot agree on any singleness of purpose. Is it not true that in this Northwest corner of the United States, with Canada touching us on the north, here is a certain individuality apparent which might be translated and expressed in architectural terms? Are we not as a group quite different in feeling and sentiment from the people of California? Is not the habit of mind of our people different from that in the south? Are not the variations in our climatic conditions a partial cause for this difference? What little historic background we have is not the same. Do not our conditions more closely approximate those of Northern Europe, whereas California approximates the conditions of the Mediterranean basin? If this is true, the horizontality, the calmness, and the massive walls belong to California, while the vibrant verticality, the small extent of walls with large window area, are characteristic of us. Therefore, it seems to me that if our clients do not help to bring

unity out of chaos, it is not our duty to attempt to do so by conscious agreement? However beautiful an individual building may be, if it does not conform to the conditions of the community in which it is placed it does not contain the fundamental elements of beauty. Even if the most beautiful building in the world, such as the Taj Mahal, were transported to the British Isles, it would be an exotic thing, just an object d'art which would be in a museum case.

It seems to me that we architects should strive to discover or evolve or transport an architectural type which most nearly seems to fit our conditions and accept it as a basic point of departure, and each one of us as best we can evolve and apply such a type, until either we or those who come after us are able to wield it into a form which perfectly expresses our community, as did the temples of the Egyptians and the Churches of France each express the spirit of their communities.—*Architect and Engineer.*

(Continued from page 468)

great rush that was due in 1922 and in 1923.

The country has come to a point at present when it is taking a second breath for a fresh start in building construction activity. Scanning the market, it shows a disposition to discount multiple housing as a commercial building type and to look toward business construction, factory expansion, municipal and engineering works as the bigger market of the immediate future.

It has been a puzzle to students of building construction trend to note commercial and industrial construction lagging so far behind in activity, but it should be remembered that this type of construction seldom anticipates demand, like housing and municipal improvement. It takes at least two years of prosperity to force factories into bigger space. Loft building and office building space is not usually in acute demand until the factories have a larger capacity to keep moving, thereby requiring branch offices to keep closely in touch with their markets. Danger of railroad congestion necessitates warehouse space and lofts for showrooms. Both of these conditions press heavily upon hotel accommodation and theatres and fine stores for visiting buyers and sales executives and their families.

But all this prosperity hinges upon the individual with money to spend. He is the man with an annual spending limit of \$5,000 a year. When he is flush he buys, or saves and invests his money in a home. These \$5,000 a year "backboners" would be putting up a great many more homes if construction costs were not so high. They are waiting for

conditions to even themselves up and they want to know how long it is going to take.

Answering his inquiry answers at the same time the query of many a sales manager throughout the land who is getting out his semi-annual report to the executives at home.

Those of the building construction and allied industries will note these cross-currents that have brought about this quagmire condition in the industry and, bearing in mind the following, they can apply their own deductions to their own particular business and thus draw their own conclusions as to their future policies:

If they depend upon the housing market for their chief sustenance, it is safe to counsel waiting at least until after the October renting season. If their line is in heavy competition and has a multiple family use, the best plan is to advise against expecting an active market until after the Spring renting season passes.

Commercial and industrial construction projectors have waited long since the war to ascertain whether the era of national prosperity is firm or fickle. As far as national and international monetary conditions are concerned, they show that the buying power of the American public cannot be greatly curtailed so long as the chief market for American goods remains in America itself.

When international markets develop (and they are even now reserving the old order of things by sending American cement to Europe as ship ballast), it will intensify rather than diminish American buying power and at the same time create a greater tax upon American factories which must expand, a fact that will intensify rather than retard American prosperity.

There must be expected, however, some slight reaction in the tendency of the public to freely spend. People are beginning to wonder how long this easy income and equally easy outgo can last, and the shrewd ones are beginning to think of the times when money will not come so easy. There is a big bump of precaution in a Yankee's head, and the forthcoming disturbances in domestic politics is going to encourage him in his policy to cut down his expenditures.

This slowing down process is already noticeable, even in larger Eastern construction projects. The process may continue for the forthcoming six months. The possibilities of a change in national Administrations also may force some temporary tightening of credit here and there for purely precautionary reasons.

But this does not disturb in the least fundamentals that will survive whatever turn domestic politics may take. The demand for new building construction



has been shown to still exist, but the capacity of building material plants to meet that demand is not there. It cannot be there until it has had a chance to catch up with demand. Bigger markets for building commodities await them, and the quicker the industry can catch up with the national construction stride the quicker will be restored the long-deferred hope of stability in the building business.—*New York Times*.

#### CONCRETE FLOOR TESTS

The hollow tile and reinforced concrete floors of the Arlington Building, Washington, D. C., occupied by the U. S. Veterans' Bureau, were tested by loading them and measuring the deformation.

In this structure, the tiles were placed in rows and spaced four inches in each direction. Reinforcing steel was placed in these spaces near the bottom of the slab in the panel and near the top of it across the supporting beams. The concrete was poured around the reinforcing bars and into the open ends of the tiles.

The building was intended for a hotel but was later turned over to the Government for the use of the Veterans' Bureau. The original design load of 75 pounds per square foot was increased to 100 pounds per square foot and the increased strength obtained by a two-inch layer of concrete over the tops of the tiles.

The panels of the floor were loaded with wand bags up to 380 pounds per square foot and the stresses in the steel and the concrete measured. The maximum stresses developed in the steel reinforcement were about 27,000 pounds per square inch and those in the concrete about 1,600 pounds per square inch. The effect of time under load was to increase the stresses in the reinforcing steel from 15 to 20 per cent. This was particularly pronounced in the first 20 hours and was comparatively small later.

The panels tested varied in the ratio of length to width. It was found that with the increase of that ratio, the stresses in the reinforcing steel at the bottom of the slab and those at the top of the slab (across the girders) increased in the direction of the short span and decreased in the long one. The stresses in the girders were lower than those in the slab.

The factor of safety of the structure was greater than two. This factor is the ratio of the maximum load the structure can sustain to the load which can be safely allowed when the building is in use.

These tests are described in Technologic Paper No. 236 of the Bureau of Standards, copies of which can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. The price is 15 cents.

#### BURNING PENNSYLVANIA HOMES

*Dwellings in State Valued at \$13,950,715 Destroyed by Fire in Five Years—Loss of Life Involved*

In view of the persistent shortage of housing facilities in Pennsylvania as in every other State, it is not a little alarming to learn from figures made public by the National Board of Fire Underwriters, through its Actuarial Bureau, that Pennsylvania burned, during the five-year period of 1917-1921, dwelling house property valued at \$13,950,715. This was only a portion of the total fire destruction in Pennsylvania; it represents a per capita dwelling fire loss for the State of \$1.59. At \$10,000 each, 1,395 comfortable homes could have been constructed with the money thus thrown away; and the scarcity of suitable housing accommodations in Pennsylvania materially relieved.

It appears further that the total loss in dwellings for the entire country, during this term, exceeded a quarter-billion dollars, standing at \$321,453,878. Chief among the originating causes cited by the Board as responsible for this unexampled destruction were "Defective Chimneys and Flues," "Sparks on Roofs" (usually wooden shingle), "Stoves, Furnaces, Boilers and Their Pipes," "Electricity" (misused), and "Matches-Smoking."

"Significantly enough," said W. E. Mallalieu, general manager of the National Board, in commenting upon the losses, "four of these five causes long since were pronounced by fire prevention engineers to be 'Strictly Preventable,' for sheer carelessness in some form is, of course, at the bottom of an overwhelming majority of all blazes in dwellings as in every other type of structure.

"More appalling by far than even the enormous financial loss, however, is the record of the thousands of fatalities involved—an utterly purposeless waste of life from which Pennsylvania, unfortunately, was not by any means free. Statistics are not available to show what proportion of the 15,000 deaths from fire—which in this country is the average yearly toll—occurred in residences, but fair estimate would place it well above 50%. That dwelling house fires are so frequently attended by loss of life—the victims usually being women and children—points clearly to the fact that fire prevention rightly begins at home. It cannot begin too soon.

"Fires are occurring in American homes at the rate of 359 in each twenty-four hour period—a fresh outbreak every four minutes. If, as so often has been stated, the home is the ultimate bulwark of American institutions, then there would seem to be a grave national menace in this continu-

ous assault by fire. Yet it is a danger that need not be suffered. It can be checked by the exercise of carefulness individual and public, for an average of three out of every four fires result from negligent habits or from ignorance of hazardous conditions."

#### HOW TO MAKE WATERTIGHT CONCRETE

Concrete made from properly selected aggregates, combined with portland cement in suitable proportions, when thoroughly mixed to the right consistency, carefully placed, and adequately protected during early hardening, will be watertight under all ordinary conditions.

Watertight concrete means good concrete. A few fundamental principles of good construction should be carefully observed. These can be summarized as follows:

1. All portions of the structure should be strong enough to resist the head of water, either internal or external, to which the concrete may be subjected.
2. Use clean, well graded aggregates.
3. Use a relatively rich mixture, a 1:2:3, or better 1:1½:3.
4. Use the minimum amount of mixing water that will give a workable, plastic consistency; not over 6 gallons per sack of cement.
5. Mix the concrete thoroughly, at least 1½ minutes per batch mixer.
6. Place the concrete carefully in layers 6 to 12 inches deep, spading or rodding it thoroughly to prevent the formation of stone pockets or voids.
7. If possible place the concrete in one continuous operation to avoid construction joints. If placing is interrupted, be sure to get a good bond between the fresh concrete and that placed previously.
8. Keep the concrete warm and damp for the first ten days.

In tests conducted by the U. S. Bureau of Standards, thin slabs of a lean (1:6) portland cement mortar and 1:1½:2 concrete were subjected to a water pressure of 60 pounds per square inch. This pressure is equivalent to a 138-foot head of water. Although water penetrated through 1⅝-inch limestone slabs in periods ranging from 20 seconds to 20 minutes, it took 3½ hours for water to penetrate through a two-inch slab of 1:6 mortar, while at the end of 24 hours, when the test was terminated, the two-inch slab of 1:1½:2 concrete was still dry.

Hundreds of concrete tanks are being used for the storage of fuel oil, which is lighter than water, and these tanks are oiltight, and of course watertight. Concrete basements, pits, bridges and tanks will also be watertight if proper care is taken in their construction. Experience and tests have shown that proper practice will make watertight concrete.



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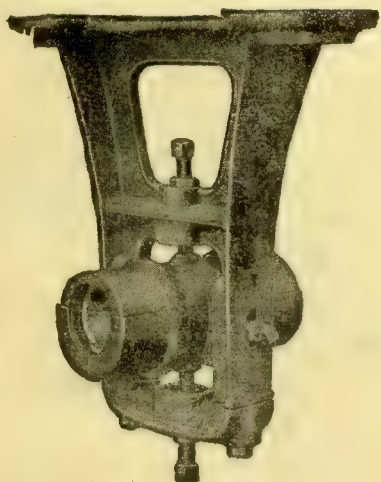
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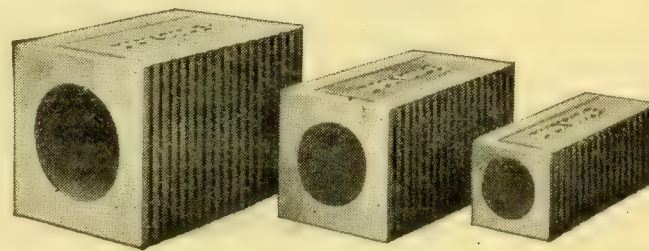
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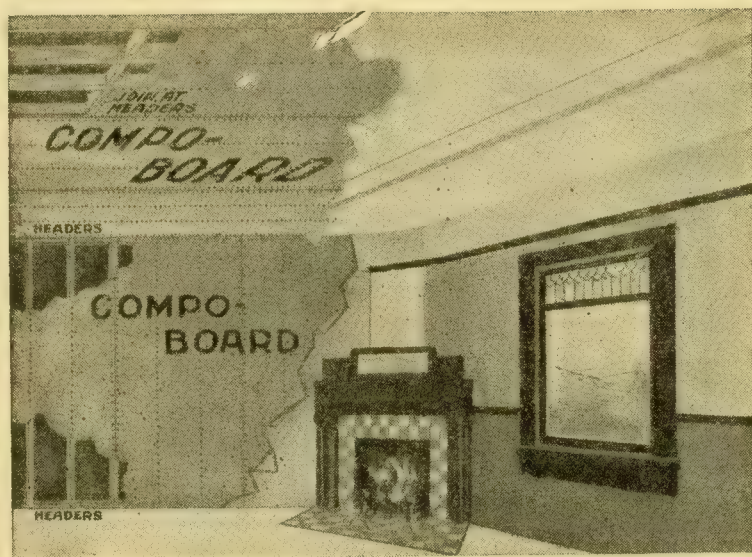
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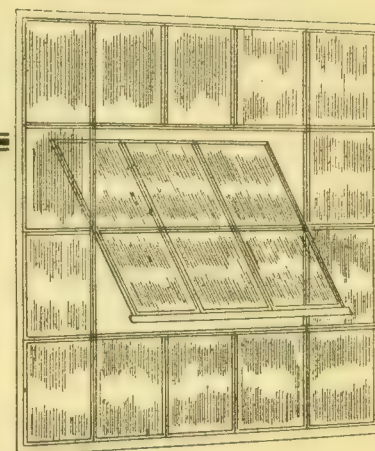
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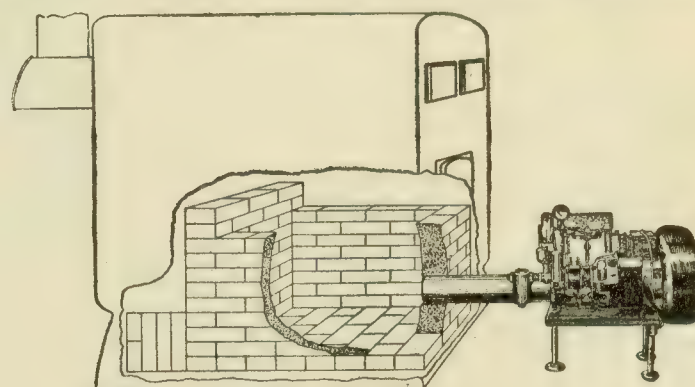
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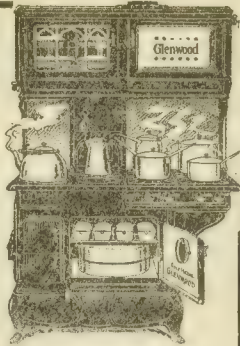


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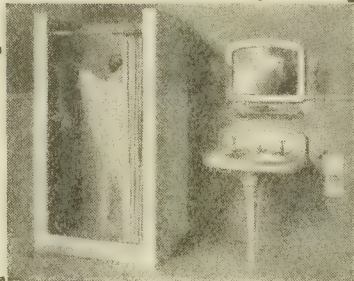


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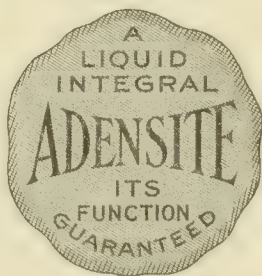
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Devoted to the Advancement of American Architecture, Structural  
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VOLUME XXXVIII  
Number 31

PHILADELPHIA  
August 1, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

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### HOW THE ARCHITECT PRODUCES HIS EFFECTS\*

BY DR. WARREN P. LAIRD

Dean School of Fine Arts, University of  
Pennsylvania

THE architect does not produce his effects through wastefulness, through excess, through prodigality or improvidence. He is aiming to produce something that will satisfy not alone scientific judgment, that will not simply bear strains and endure the asperities of time and weather, but he is trying to satisfy something that lies beyond that scientific judgment and that exists in the mind and heart of man—a love of the beautiful. He is trying to give something to the observer which will satisfy the intelligence in the first place and which will go beyond that and satisfy the craving for beauty.

Among the few things that we architects believe and teach is this proposition: that beauty is not to be had at mere money cost; that it is not always, and perhaps not often, necessary to go beyond the economic requirements of a building to make it beautiful. On the contrary, making a building beautiful is a question of good taste and good judgment in the employ of material; shown in the selection of materials that will harmonize in color; that have good tex-

\*An address before the Engineers' Club, Philadelphia.

ture and will please the eye by their surface character and by the selection of ornament that will be appropriate and well placed.

Under the severities of his training, the architect comes to learn that the process of making a thing beautiful is the process of simplifying it. I wish I could show you the process through which the student passes, in which we harrow his soul by requiring him to leave things out, whereas his instinct is to put things in to make his building beautiful. Ordinarily the simplest things are the most beautiful.

Sometimes there is a deliberate effort to make a thing sumptuous and rich and gay, but that is an essay in a certain kind of design. The result may not be satisfactory because it is a great deal more difficult to make a very extravagant thing beautiful than to give that quality to a simple thing.

The architect's great concern, then, in his work is design, or composition; that is to say, the arrangement of the parts into a whole. In designing his plan, he has in mind not merely the distribution of spaces into a convenient arrangement, or the nature of the structure which is to support the roofs and to separate those spaces, but also of something that he must carry along at the same time; he has in mind always the producing of something which will develop into a form of beauty.

It is one of the commonplaces in architecture, in the judgment of designs in architectural competitions—I think that is not commonly realized—that the jury will attach greater weight to plan than to elevation; and if there is a slight difference in merit between two plans, it would take an extraordinary badness in the elevation of the better of those designs, and an extraordinary beauty in the elevation of the second best design to give that second best plan the first place in the competition.

The best architectural jury will look first at the plan, to see whether it is going to produce the utility that will meet the purpose, and whether it is going to be economical in its construction or not. They feel a security in doing that because of the fact that a good plan will produce a good elevation in competent hands. Hence the architect's major responsibility and the thing that occupies most of his time and study is the problem of providing something practical, something that will satisfy economic requirements, and he can best produce a work of beauty out of those conditions.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

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## TO SURVEY SEASONAL OPERATION IN CONSTRUCTION INDUSTRIES

Savings, not only to the building industry and its workers, but to the public generally are expected to result from the activities of a committee on seasonal operation in construction industries, the appointment of which by Herbert Hoover, chairman of the President's Conference on Unemployment, has just been announced by the Department of Commerce. This saving should be reflected in lower relative cost of dwellings and other buildings. The members of the committee are:

Ernest T. Trigg, manufacturer, of Philadelphia, chairman; John W. Blodgett, manufacturer, of Grand Rapids, Mich.; John Donlin, President, Building Trades Dept., American Federation of Labor, Washington, D. C.; L. F. Epich, President, National Assn. of Real Estate Boards, Denver, Col.; A. P. Greensfelder, contractor, St. Louis, Mo.; John M. Gries, Department of Commerce, Washington, D. C.; Otto T. Mallery, public works expert, of Philadelphia, Pa.; Rudolph P. Miller, engineer, of New York; James P. Noonan, President, Brotherhood of Electrical Workers, Washington, D. C.; William Stanley Parker, architect, of Boston, Mass.; and Edward Eyre Hunt, secretary. Mr. Trigg, as chairman, has called a meeting of the committee for July 10 and 11 to lay out plans for a thorough study of the facts.

Previous surveys have indicated that most construction activity is concentrated in seven to ten months of the year, which means that building trades workers can not find work in their trade during several months, and that contractors' organizations and equipment, architects, engineers, building material producers, and others connected with construction, must usually remain idle for similar periods. This idle time represents waste, and direct losses to the construction industries themselves, their workers, and the public.

The committee was formed in the hope that by examining the facts and proposed remedies, it might be able to suggest sound solutions, and obtain general co-operation in effecting them. It is the general impression that seasonal building has been due perhaps more to custom than to weather, and it is expected that the investigation will throw light on this and other important points.

## WHAT IS GOOD FURNITURE?

"The first principle of a piece of good furniture," says Marian Moore, "is its successful performance of the duty for which it is intended. If it is a chair, it must be able to support the weight of a person, so that it can really serve as a

chair and not only as a decorative feature. If it is a table, it must be solid enough to hold the things one wishes to place upon it, whether it be a reading lamp or a frail little box of gorgeous coloring. Some pieces are intended for no other use than decorative purposes, and as such should really be decorative and not merely messy as to line and color.

"Good pieces never go out of style. Good pieces, whose line, design and excellent performance of duty have made them indispensable, have been in style for centuries and will remain in style through centuries to come as exemplified in the Windsor chair, the John Hancock desk, tip table and other Colonial furniture as well as adaptations of early English and French furniture.

"As the modes of living change, the ever-growing desire for comfort, beauty and convenience leads to improvements in furniture as in everything else. For example, overstuffed furniture has come into vogue with the increase of good wearing materials, both serviceable and beautiful and moderate in price; the day-enport bed was invented when living quarters became less spacious; reed furniture came into vogue when sunrooms became almost as numerous as homes, and there are many other recent innovations which make our modern homes more beautiful and comfortable."

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## BEAUTIFYING YOUR GROUNDS

Where there is little room around a house, vines count for more than they do on a larger place. Vines are not used anywhere to the extent they should be. If the house is of frame construction, a stout wire can be fastened where a vine is wanted, or, better still, a light trellis made of two-inch by one-inch slats. Such slats generally look better if the strips run only vertically and horizontally without any special pattern, though this is not always so. On stucco houses in many states there is one vine which can be used without wire or trellis. It is a self-climber. This is Engelman's Woodbine or Ampelopsis Engelman.

In the treatment of the small home yard, a narrow walk is better than a wider one. A direct walk is better than one which wanders over the lot. If the distance from the street is short and no trees or bush come in the way, it is sensible to make a walk straight.

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residences (2)**, West side Montour street, North of Shelmire, \$4,200 each. Architect, private plans. Owner, A. Irving Knickerbocker, on premises. Brick, 2 stories, 14x44 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Vegetable Storage Building**, Protectory, Pa. Architect, Hoffman Henon, Finance Building, Philadelphia. Owners, Philadelphia Protectory for Boys, on premises. Siding, 1 story, 50x30 feet, asbestos shingle roof, rolled steel sash, bond, iron work, painting and glazing. Architect taking bids due August 3rd.

**Exchange Building**, Northeast Corner Seventeenth and Lombard streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, stone, steel, 3 stories, 75x220 feet, steam heat, electric light, tile and marble work, slag roof, hardwood and cement floors, elevators, iron work. Plans in progress.

**Church (alts.)**, Fourth and Walton streets, Philadelphia. Architect, Charles F. Schaef, 11 South Sixteenth street, Philadelphia. Owners, St. Casimir's Lithuanian Roman Catholic Church, Rev. J. J. Kaulakis, 324 Wharton street, Philadelphia. General alterations. Plans about completed. Architect will be ready for bids in a few days.

**Garage**, Sixty-fifth avenue and Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, steel, concrete, 1 story. Plans in progress.

**Apartment House**, Bryn Mawr avenue and City Line, Philadelphia. Architect, Charles F. Schaef, 11 South Sixteenth street, Philadelphia. Owners, Solomon Brothers, Ninth and Walnut streets, Philadelphia. Brick, stone and terra cotta, 3 stories, 100x280 feet, vapor heat, electric light, metal lath, tile and marble work, dumb waiter and elevator, slag and tile roof, hardwood floors, iron work. Plans about completed. Architect will be ready for bids in two weeks.

**Factory Building**, Wayne Junction, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, H. S.

and L. F. Levy, on premises. Reinforced concrete and steel, 4 stories, 60x105 feet, irregular. Plans completed. Architect will be ready for bids in three weeks.

**Police Station and Garage**, Fiftieth and Lancaster avenue, Forty-second District, Philadelphia. Architects, Paul A. Davis & Dunlap, 1713 Sansom streets, Philadelphia. Owners, Department of Public Safety, City of Philadelphia, Bureau of Police. Brick, cut stone, steel, limestone, 2 stories, slag roof, cement floors (heating, plumbing, electric, ventilating separate), metal lath, tile, marble and terrazzo work, tin lined doors, bond, floor hardener, iron stairs and work, waterproofing and dampproofing, terra cotta, roof ventilators (alt. for yellow pine floors). Architect taking bids due August 13th at noon.

**Library (alts. and add.)**, 4035 Girard avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, Progress Library of West Philadelphia, on premises. Brick, 3 stories, 18x40 feet, hot water heat, electric light, slag roof, maple and pine floors, stair work, plastering, painting and glazing. Architect taking sub-bids.

**Office**, Nineteenth and Clearfield streets, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Sawdust Sales Co., Nineteenth and Clearfield streets, Philadelphia. Frame, corrugated iron, 1 story, 15x30 feet, pine floors, rolled steel sash, corrugated iron roof. Owners will build.

**Residences (45)**, Fifty-fourth to Fifty-fifth, on Montgomery avenue, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Max Gussman, 6107 Pine street, Philadelphia. Brick, 2 stories, 16x48 feet, hot water heat, electric light, metal lath, tile work, slag roof, hardwood, pine and cement floors, garages in basement. Owner will build.

**Coal Office, Watchman's Quarters, Cement Storage and Warehouse, Men's Bunk, Stable, Scale House and Storage**, Washington Lane and Philadelphia and Reading R. R., Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Edward F. Bennis, Germantown and Cheltenham avenues, Philadelphia. Stone, 2 stories, 25x25 feet, 1 story, 35x60 feet, 40x65 feet, 20-ton scale house, 1 story, 75x20 feet, slate and slag

roof, pine and cement floors, hot water and steam heat, plumbing, electric work, stone and timber, finestra sash, rolled steel doors. Owner will build.

**Factory**, Southwest side Benner street, Southeast of Keystone street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Joseph Pickard's, on premises. Brick, steel, reinforced concrete, 1 story, 141x50 feet (plumbing, heating and electric reserved), slag roof, concrete floors, roof ventilators, rolled steel sash and skylights, fire doors, bond, floor hardener, iron work. Architect taking bids due August 2nd.

**Office Building (alts. and add.)**, Tenth and Washington avenue, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Frank Mathers, on premises. Brick, cut stone, 2 stories and basement, 30x25 feet (plumbing, heating, electric light reserved), slag roof, composition and pine floors, metal lath, tile and marble work, galvanized iron skylights, bond, iron work. Architect taking bids due August 3rd.

**Stores and Garages (add.)**, Southwest Corner Fifty-fifth and Media streets, Philadelphia. Architect, Engineer M. M. Boonin, 1506 North Alden street, Philadelphia. Owner, M. Segelbaum, on premises. Stone or concrete, building block, basement, 16x70 feet, hot water heat, electric light, metal lath partitions, concrete and pine floors, metal ceilings, plate glass, terra cotta flue lining. Architect taking bids due as soon as possible.

**Manufacturing Building (add.)**, Press Shop, L and M Buildings, North Hunting Park avenue, West of Wissahickon avenue, Philadelphia. Owners, E. G. Budd Co., on premises. Reinforced concrete, 3 and 1 stories. Architect taking bids due August 7th, noon, sharp.

**Apartment (alts.)**, 3724 Baring street, Philadelphia. Architects, Durham Brothers, 1611 Sansom street, Philadelphia. Owners, J. B. R. McClure, 18 South Fortieth street, Philadelphia. Stone, concrete, iron work, electric work, brick work, oak and pine floors, carpentry and mill work, plastering, glazing, hardware, plumbing, heating. Architect taking bids due August 8th.

**Power Plant**, in Museum of University of Pennsylvania (alts.), Thirty-third and Spruce streets. Architect, private plans. Owners, University of Pennsylvania, W. R. Jones, 3446 Walnut street. Reinforced concrete, corrugated iron roof, brick, cement floors, iron work, painting, bond. Owners taking bids due August 3rd.

**Independence Hall (alts.)**, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Marble work, steel and iron work, carpentry and mill work, plastering, pine floors, hardware, metal lath, painting and glazing, bond. Owner taking bids due August 2nd.

**Subway Construction**, Contract No. 207, Philadelphia. Architect, private plans. Owners, Department of Transit, W. F. Twining,

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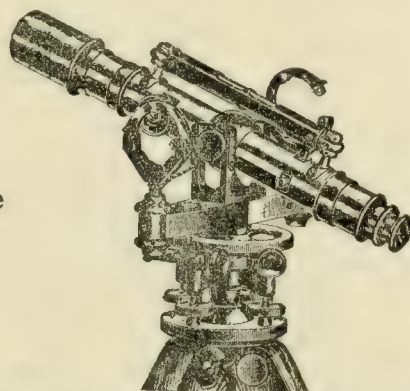
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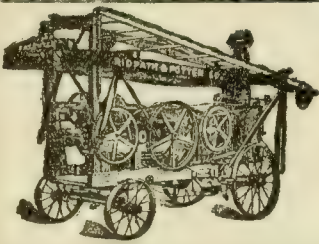
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1211 Chestnut street, Philadelphia. Low bidders: Pasouzzi, Jaffolla & Mark, Lincoln Building, \$1,171,729. Keystone State Const. Co., 210 South Thirteenth street, \$1,198,555.

**Residences (40)**, Sixty-seventh, Upland and Greenway avenues, \$203,500. Architect, private plans. Owner, J. M. Gallagher, Fifty-fifth and Springfield avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (13), Stores (2)**, Sixty-fifth avenue and Price street, \$82,500. Architect, private plans. Owner, William J. Baltz, Sixty-sixth avenue and Lawnton avenue, Philadelphia. Brick, 2 stories, 19x29 feet and 24x39 feet, slag roof, hardwood and pine floors, electric lighting. Owner will build.

**Garage and Office**, Hortter street, West of Germantown avenue, \$12,000. Architect, private plans. Owner, J. Franklin Meehan, 402 Dorset street, Philadelphia. Brick, 1 story, irregular size, office, 1 story, 9x21 feet, 10x32 feet, slag roof, cement and maple floors, electric lighting. Owner will build.

**Residence and Store**, 1223 Cottman street, Philadelphia, \$6,500. Architect, private plans. Owners, Henry and Anna Kuhn, 7320 Claridge street, Philadelphia. Brick, 2 stories, 18x58 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Owners will build.

**Garage**, 1836-42 North Front street, Philadelphia, \$20,000. Architect, private plans. Owner, A. Leibowitz, 4045 Baltimore avenue, Philadelphia. Brick, 1 story, 66x110 feet, slag roof, cement floors. Owner will build.

**Residences (7) and Residence and Store (1)**, Washington Lane and Musgrave street, Philadelphia, \$41,000. Architect, private plans. Owners, Seitz & Heileman, 5239 North Front street, Philadelphia. Brick, 2 stories, (1) 18x61 feet, (7) 16x33 feet, 13x13 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**Warehouse (alts.)**, Southwest Corner Fourth and Callowhill streets, \$5,500. Architect, private plans. Owners, Samuel H. French & Co., York and Callowhill streets. Carpentry, mill work, plastering, general alterations. Owner will build.

**Residences (6)**, South side Griffith street, West of Castor Road, \$5,000 each. Architect, private plans. Owner, George Krewson, 330 Franklin street, Cheltenham, Pa. Brick, 3 stories, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residences (5)**, Seventieth and Upland avenue, \$3,500 each. Architect, private plans. Owners, J. Glaser and P. Cohen, 4112 Ogden street, Philadelphia. Brick, 2 stories, 16x36 feet, (4) 16x26 feet, 13x10 feet, slag roof,

hot water heat, electric light. Owners will build.

**Two--Family Residence (alts. and add.)**, 5416 Vine street, \$5,000. Architect, private plans. Owner, Leon Kelvin, on premises. Brick, 2 stories, 16x20 feet, general alterations. Owner will build.

**Residences (12)**, Pratt, Edmund and Granite streets, Philadelphia, \$5,000 each. Architect, private plans. Owner, Gustav Brucker, 3445 Richmond street, Philadelphia. Brick, 2 stories, (2) 15x44 feet, (10) 15x33 feet, 11x11 feet, hot water heat, electric light. Owner will build.

**Residences (5)**, East side Lawrence street, North of Cayuga, \$4,000. Architect, private plans. Owner, Charles M. Sinn, 5518 North American street, Philadelphia. Brick, 2 stories, 14x28 feet, 11x11 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

**Business Building (add. and alts.)**, 5214 Chestnut street, \$4,000. Architect, private plans. Owner, E. Schuenemar, Northwest Corner Fifty-third and Locust streets, Philadelphia. Brick, 1 story add., 16x49 feet, general alterations. Owner will build.

**Residences (2)**, South side Shelmire street, West of Dugan, \$4,500 each. Architect, private plans. Owner, Benjamin Bieker, 3445 Reich street, Philadelphia. Frame, 2 stories, 16x44 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Garage**, 2351 North Seventh street, Philadelphia, \$3,600. Architect, private plans. Owner, M. R. Auer, 630 West York street, Philadelphia. Brick, 1 story, 24x18 feet, 16x93 feet, slag roof, cement floors. Owner will build.

**Shop and Garage**, 3040 Stiles street, Philadelphia, \$2,500. Architect, private plans. Owner, John Frick, 1219 North Twenty-ninth street, Philadelphia. Brick, 2 stories, 16x62½ feet, slag roof, cement and pine floors. Owner will build.

**Residence**, South side Chelwynde avenue, East of Eighty-third street, \$2,600. Architect, private plans. Owner, John Nardoni, Eighty-third and Chelwynde avenue, Philadelphia. Brick, 2 stories, 14x36 feet, pine floors, electric work. Owner will build.

**Miscellaneous Work**, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Schedule A, substructure and superstructure Southwest Sewage Pumping Station, Fortieth Ward, lowland drainage. Schedule B, underground structure, Northeast Sewage Treatment Works, Wheatshaf, East of Richmond street. Owners taking bids due August 4th, 11 A. M. (standard time). Inquire Room 416.

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Philadelphia. General construction. **Building**, Northeast Corner Twelfth and Reed streets, Philadelphia. Remodeling and improving, exterior painting. City Architect, J. F. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Owners taking bids due August 2nd, 11 A. M. (standard time). Deposit, \$5.00 each set.

**Durham Park**, Forty-fourth Ward. Constructing fence, replacing damaged concrete footway pavement with granolithic finish, treating soil, supplying and spreading top soil, seeding and planting. **Recreation Centre**, Cheltenham, Wister street, Wyncote avenue, Twenty-second Ward. Grading, soil treatment, construction of tile border around monument, concrete curbs and posts, foundation for monument, concrete pavement with granolithic finish, sodding. **Improving Plot**, Twenty-fifth, Dauphin and Sedgley avenues. Grading, supplying and treating, clean earth

silt, constructing street and foot pavement, concrete curbs, sodding. **Building and Setting Up** in place one special model case in National Museum, Independence Hall, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Owners taking bids due August 2nd, 11 A. M. (standard time). Plans may be secured Room 117, City Hall. Deposit \$5.00 on each set.

**Making and Assembling and Installing Venetian Blinds**, United State House of Representatives, Congress Hall, Sixth and Chestnut streets. Refurnishing Rooms 443 and 446 by laying new carpet. Laying and repairing neuchatel or asphalt paving, concrete paving with brush pebble finish, granolithic finish paving, copings, curbs, etc., for year of 1923. Specifications obtainable Room 117. Owners taking bids due August 2nd, 11 A. M. (standard time). Owners, Department of Public Works, Bureau of City Property, 216 City Hall.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residence**, Sedgwick and Crittenden streets, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, W. Kommer, 6333 Stenton avenue, Philadelphia. Stone, 2½ stories, 50x104 feet, slate roof, oak and yellow pine floors, electric light, tile work, iron work. Contract awarded to Harry Broeklehurst, 512 West Norris street, Philadelphia.

**Garage**, Schuylkill avenue, near Bainbridge street, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Yellow Cab Realty Co., East River and Forty-ninth street, New York City. Brick, steel, 1 story, 155x100 feet, steam heat, electric light, copper skylight, slag roof, cement and wood block, bond, alt. galvanized iron skylights. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

**Girard College Building No. 7, Kitchen and Sleeping Rooms (alts.)**, North side College avenue, opposite Corinthian, \$10,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, Lafayette Building, Philadelphia. New windows, stone facing, painting, glazing, carpentry, mill work, plastering. Contract awarded to E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

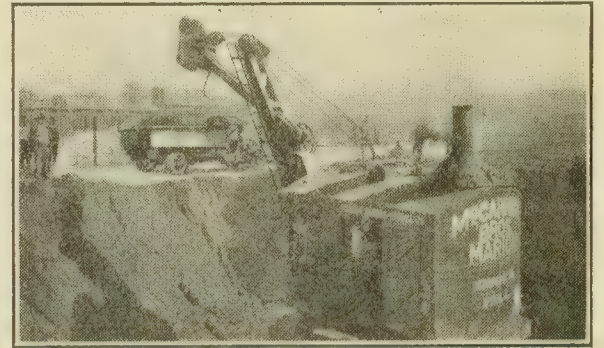
**Buildings (alts. and add.)**, Southwest Corner Twentieth and Hamilton, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Pa. Owners, Philadelphia and Reading R. R. Co., Twelfth and Market streets, Philadelphia.

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Philadelphia. Brick, steel, 2 stories add., 28x174 feet (heating and electric reserved), built-up asbestos roof, pine and asphalt floors, elevators, rolled steel shutters and sash, bond, plumbing, ornamental iron work. Contract awarded to Curtis Grindrod, 10 South Eighth street, Philadelphia.

**Store**, Northeast Corner Eleventh and Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Hallander & Fleishman Co., on premises. Carpentry and mill work, metal bulk windows, painting, brick, steel, iron work, plastering, glazing, hardware, electric. Contract awarded to Basch & Co., Ruan and Tackawanna streets, Philadelphia.

**Store and Apartments**, 1911 Walnut street, Philadelphia, \$21,000. Architects, McLanahan & Bencker, Bellvue Court Building, Philadelphia. Owner, W. Edgar Keith, 31 South Eighth street, Philadelphia. Brick, steel, cut stone, 1 story and basement, 30x12 feet, Barrett specification roof, yellow pine, concrete and oak floors, painting and glazing, bond, tile, marble and slate work, galvanized iron skylights, metal lath. Contract awarded to Trunbull & Cornell, 15 South Twenty-first street, Philadelphia.



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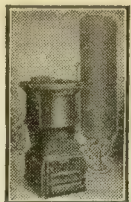
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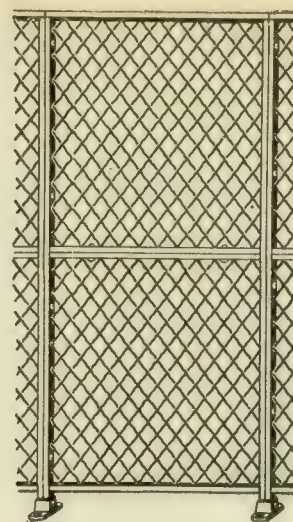
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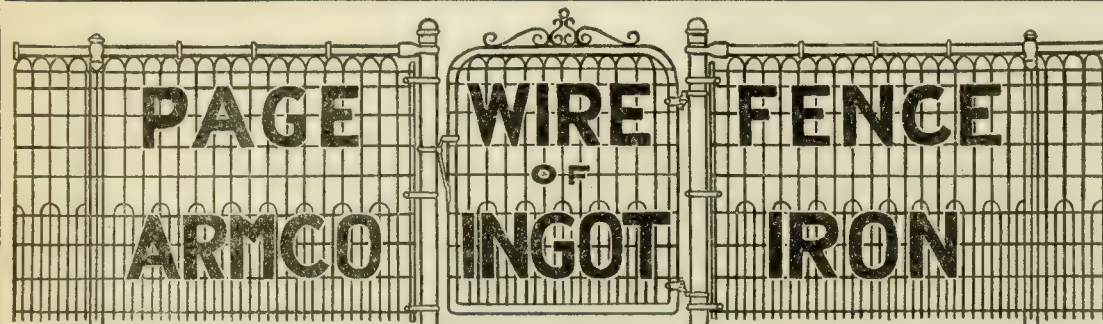


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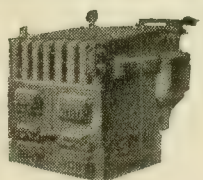
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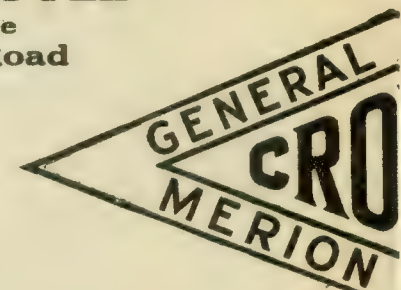
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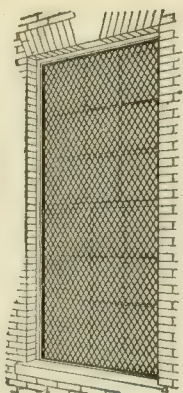
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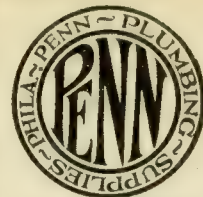
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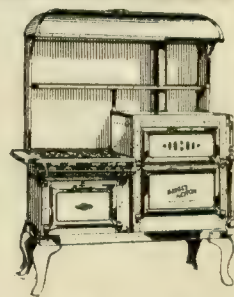
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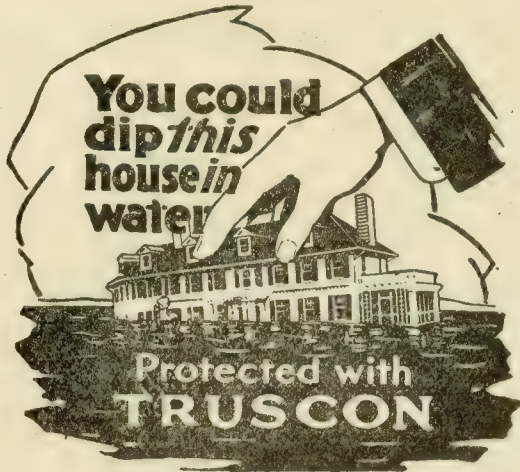
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**Store (alts.),** 726-28 Market street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Emma Schwehn, care of architect. Brick, structural iron, repairs to roof, plastering, carpentry and mill work, tile and marble work, painting and glazing, composition floors, hardware, electric light, plumbing and heating repairs. Contract awarded to J. Schnabel, Denckla Building, Philadelphia.

**Residence (alts.),** 400 East Willow Grove avenue, \$6,000. Architect, private plans. Owner, Randall Morgan, Broad and Arch streets, Philadelphia. Carpentry, mill work, painting, glazing, plastering, electric work, hot water heating, plastering, sheet metal work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Building,** Hicks and Race streets, Philadelphia. Architect, Amos W. Barnes, 1704 Ludlow street, Philadelphia. Owners, J. J. Griffin Co., 1519-21 Race street, Philadelphia. Brick work, painting, cut stone, structural steel, rolled steel sash, glazing. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Shop and Storage Building (alts. and add.),** 1512 South Bancroft street, \$2,000. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Henry Dollinger, Sixteenth and Tasker streets, Philadelphia. Brick, 1 story, 15x24 feet, slag roof, yellow pine floors. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

**Factory (alts. and add.),** Southwest Corner Tenth and South streets, \$4,000. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Jacob Friedman, care of architect. Brick, 1 story, 3x15 feet, metal bulks, pastering, painting, glazing, carpentry, mill work, metal lath. Contract awarded to Charlock & Chapman, 3109 Dauphin street, Philadelphia.

**Factory,** Southwest Corner Thirty-third and Ludlow streets, Philadelphia, \$15,000. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owners, H. Helm & Son, 46 North Seventh street, Philadelphia. Brick, 3 stories, 15x39 feet, slag roof, maple floors, electric lighting, steam heating. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Garage,** Twenty-eighth and Hunting Park avenue, Philadelphia. Architect, private plans. Owners, Tasty Baking Co., on premises. Brick, concrete, lath, 1 story, 20x30 feet, steam heat, electric light, slag roof, cement floors. Contract awarded to John N. Gill, Const. Co., Otis Building, Philadelphia.

**Building,** Harrowgate Incinerating Plant, G and Romona streets. Architect, private plans. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Contract awarded Murphy Quigley Co., 1524 Sansom street, \$164,400. Electric, Greenwood Engr. Co., 3314 Lancaster avenue, \$1,945. Plumbing, Bullman Brothers, Fifth and Cumberland streets, \$8,766.

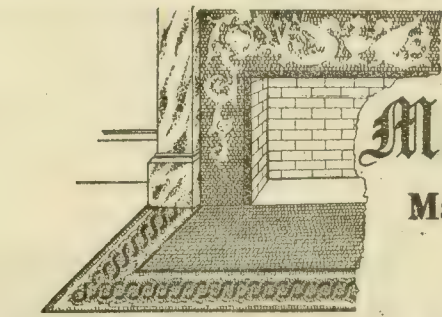
**Building (fire repairs),** American, Cuthbert and Filbert streets, \$18,000. Architect, private plans. Owner, S. Lazarik, Broad and Girard avenue, Philadelphia. General fire repairs. Contract awarded to Robbins Cont. Co., 1137 North Front street.

**School (add.),** Southwest Corner Fifth and Snyder avenue, Philadelphia, \$10,430. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut, Philadelphia. Brick, 1 story, 18x34 feet, slag roof. Contract awarded to Joseph McHugh, 34 South Seventeenth street, Philadelphia.

**Factory (add. and alts.),** South side League street, East of Second street, \$6,200. Architect, private plans. Owners, Guarantee Burlap Bag Co., on premises. Brick, 1 story, irregular size, slag roof, maple floors. Contract awarded to James T. Murphy, 1721 North Second street, Philadelphia.

**Residence (alts. and add.),** 327 South Smedley street, Philadelphia, \$4,000. Architect, private plans. Owner, Janet J. McAllister, Media, Pa. Brick, 1 story, 9x12 feet, general alterations. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

**Building (alts. and add.),** 617 Kater street, Philadelphia, \$6,100. Architect, private plans. Owners, Bedford Mission, on premises. New fire tower, general alterations, brick work, cement work. Contract awarded to William



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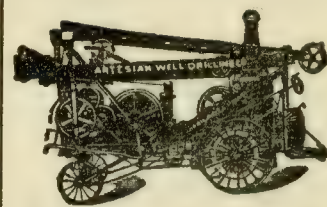
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**Two-Family Residence (alts. and add.),** 1928 Diamond street, \$5,000. Architect, private plans. Owner, R. H. Weeder, on premises. Brick, 3 stories, 11x16 feet, 1 story, 11x9 feet, general alterations. Contract awarded to Campbell Const. Co., 910 North Front street.

**Store and Office,** 1730-36 Ludlow street, Philadelphia, \$40,000. Architect, private plans. Owners, F. P. Mellon Estate, 1712 Ludlow street, Philadelphia. Brick, 3 stories, 61x20 feet, slag roof, steam heat, electric light, oak and pine floors, tile work. Contract awarded to George C. Dougherty, 1725 Ludlow street, Philadelphia.

**Loading Room,** Southeast Corner Thirty-third and Walnut streets, Philadelphia, \$23,000. Architect, private plans. Owners, Hutchinson Baking Co., 3240 Walnut street, Philadelphia. Brick, 1 story, 66x97 feet, slag roof, cement floors, electric light. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

**Residences and Stores (2),** South side Bridge street, East of Cottage, \$11,000 total. Architect, private plans. Owner, George N. Wagner, 2100 Bridge street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, oak and pine floors. Contract awarded to Theo. G. Hoffman, 2091 Bridge street, Philadelphia.

**Apartment (alts. and add.),** 3201 Ridge avenue, Philadelphia, \$26,000. Architect, private plans. Owner, A. Zagodkin, on premises. Brick, 3 stories add., 22x38 feet, irregular, general alterations. Contract awarded to Girard Realty Const. Co., 3220 Columbia avenue.

**Warehouse (repairs),** 607 Commerce street, Philadelphia, \$5,000. Architect, private plans. Owners, Bachman Brothers, on premises. General fire repairs. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

**Garage,** 4357 Fleming street, Philadelphia, \$2,500. Architect, private plans. Owner, Edward S. Clark, 4345 Dexter street, Philadelphia. Brick, 1 story, 65x32 feet, slag roof, cement floors. Contract awarded to Charles H. Zebley, 340 Quince street, Philadelphia.

**Residences (2) (alts.),** 1627-29 East Passyunk avenue, \$3,800. Architect, private plans. Owner, Joseph Reinhart, 1629 East Passyunk avenue, Philadelphia. General alterations. Contract awarded to Thomas E. Bressi, 744 South Sixth street, Philadelphia.

**Bakery (repairs),** 1224-36 Ridge avenue, Philadelphia, \$3,000. Architect, private plans.

Owners, Parkway Baking Co., on premises. General fire repairs. Contract awarded to J. L. Fawley, 1615 Spruce street, Philadelphia.

**Warehouse (alts.),** Southeast Corner Richmond and Schiller streets, \$3,000. Architect, private plans. Owners, S. M. Dye Works, Southwest Corner Richmond and Schiller streets. General alterations. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

**Residence and Store (add.),** 4914 North Fifth street, Philadelphia, \$2,500. Architect, private plans. Owner, Mr. Quinn, on premises. Brick, 2 stories add., 16x7 feet. Contract awarded to F. V. Schubert, 4011 North Marshall street, Philadelphia.

**Residence and Store (alts.),** 6107 Ridge avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Max Rubin, 2142 North Thirty-second street, Philadelphia. General alterations. Contract awarded to Orville & Perrault, 2145 Diamond street.

**Residence (add.),** 3944 Chestnut street, Philadelphia, \$5,000. Architect, private plans. Owner, Mary C. Harris, on premises. Brick, 2 stories add., 32x23 feet, slag roof, oak and pine floors. Contract awarded to William T. Harris, 3944 Chestnut street, Philadelphia.

**Residence and Store (alts.),** Northeast Corner Third and York streets, \$3,000. Architect, private plans. Owner, P. J. Diamond, on premises. General alterations. Contract awarded to H. Hofmaier, 2247 North Fifth street, Philadelphia.

**Residence (add.),** 1938 Erie avenue, Philadelphia, \$2,000. Architect, private plans. Owner, S. Gourly, 2932 Oxford street, Philadelphia. Brick, 1 story add., 12x12 feet. Contract awarded to Gourly Const. Co., Twenty-first and Ridge avenue.

**Apartments (alts.),** Northeast Corner Thirty-sixth and Chestnut streets, \$2,000. Architect, private plans. Owners, Quaker City Apartment House Co., on premises. General alterations. Contract awarded to E. M. Neely, 4411 Germantown avenue, Philadelphia.

**Residence (alts.),** 5121 Pine street, Philadelphia, \$2,000. Architect, private plans. Owner, W. D. Higbee, 313 South Fifteenth street, Philadelphia. General alterations. Contract awarded to H. Beckershoff, 5156 Haverford avenue.

**Residence (add.),** 6333 Greene street, Germantown, Philadelphia, \$4,000. Architect, private plans. Owner, Charles F. Felin, on premises. Brick, 2 stories, 14x19 feet, slag roof, electric work. Contract awarded to John R. Erbe, 2551 North Sixth street, Philadelphia.

**Business Building (add.),** 1318 Vine street, Philadelphia, \$3,250. Architect, private plans. Owner, David Phillips, on premises. Brick, 2 stories add., 16x30 feet, electric work, pine

floors. Contract awarded to Charlock & Chapman, 3109 Dauphin street.

**Residence (add.),** 4139 Salem street, Philadelphia, \$3,100. Architect, private plans. Owner, Felix Masi, on premises. Brick, 2 stories, 16x31½ feet, slag roof, pine floors, electric work. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Apartment (alts.),** 5345 Wayne avenue, Philadelphia, \$5,500. Architect, private plans. Owner, Joseph W. Hancock, on premises. General alterations. Contract awarded to Warren Brothers, 1113 Cherry street, Philadelphia.

**Residence (alts.),** 1620 Locust street, Philadelphia, \$5,200. Architect, private plans. Owner, Juliana Wood, on premises. General alterations. Contract awarded to Frank W. Allison, 265 South Twentieth street, Philadelphia.

**Stable (add.),** 732 Harmony street, Philadelphia, \$5,000. Architect, private plans. Owner, John J. Judge, 2530 Swain street, Philadelphia. Brick, 2 stories add., 30x61 feet. Contract awarded to Goodlee Const. Co., 521 Natrona street.

**Storage Building (repairs),** 208-10 Filbert street, \$2,630. Owners, Girard Trust Co., Broad and Chestnut streets, Philadelphia. General fire repairs. Contract awarded to George P. Clayton, 1817 North Twentieth street, Philadelphia.

**Office (repairs),** 1420 Chestnut street, Philadelphia, \$2,500. Architect, private plans. Owners, Estate of John Wanamaker, Thirteenth and Chestnut streets, Philadelphia. General repairs. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

**Building,** 1921 Walnut street, Philadelphia, \$5,500. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Brick, cement work, cut stone, steel, plastering, carpentry and mill work, bulk windows, painting and glazing (plumbing, heating and electric reserved). Contract awarded to Joseph P. Collins, 5632 Walnut street, Philadelphia.

**Sima Alpha Epsilon Frat House (add.),** 3908 Spruce street, Philadelphia. Architects, William Steel & Son, 219 North Broad street, Philadelphia. Brick and steel, 2 stories, 43x29 feet, slag roof, maple floors, metal lath, tile work, terra cotta, iron work. Contract awarded to William Steele & Sons Co., 219 North Broad street, Philadelphia.

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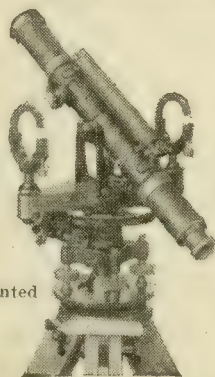
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**Residences (17)**, Whitewood Park, Elkins Park, Pa. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Whitewood Park Community Center, Elkins Park, Pa. Stone, hollow tile and stucco, various sizes, slate roof, steam heat, electric light, hardwood floors, tile and marble work. Architects will take sub-bids.

**Club House**, East Stroudsburg, Pa., \$100,000. Architect, Harold T. Rinker, Henry Building, East Stroudsburg, Pa. Owners, B. P. O. E., No. 319, Stroudsburg, Pa. Brick and stone, 3 stories, 85x270 feet. Preliminary plans in progress.

**City Hall**, Pottstown, Pa., \$60,000. Architect, Warren D. Heinley, 7 South Fourth street, Reading, Pa. Engineer, Bradford Stetson, 1014 Bellevue avenue, Pottstown, Pa. Owners, Borough of Pottstown, Morris Seasholtz, clerk, Pottstown. Brick, steel, reinforced concrete, 2 stories, 64x52 feet, slag roof, terrazzo and composition floors, hollow tile partitions (electric wiring reserved), steam heat, metal lath, tile, marble and ter-

razzo work, bond, dampproofing, architectural terra cotta, iron stairs, ornamental iron work. Plans in progress.

**Church (alts. and add.)**, Tamaqua, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, St. John's German Lutheran Church, Rev. G. T. Drucken, Tamaqua, Pa. Brick, 1 story, 30x75 feet. Plans in progress.

**Residence and Garage**, Clarion, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, T. M. Arnold, Clarion, Pa. Hollow tile and stucco, 2½ stories, 120x150 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

**Dairy Building**, Wilkes-Barre, Pa., \$50,000. Architect, G. N. Edson, Connell Building, Scranton, Pa. Owners, Woodlawn Farm Dairy Co., Washington and North streets, Wilkes-Barre, Pa. Brick, 2 stories, 60x80 feet. Plans in progress.

**Schools (3)**, Leiperville, Woodlyn and Holmes, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School Board of Ridley, J. S. Hay, president, Woodlyn, Pa. Brick and stone, 2 stories. Plans in progress. Too early for details.

**School**, Hegins Township, Valley View, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Hegins Township School Board, J. Scrope, president, Hegins, Pa. Brick, stone, 2 stories and basement, 147x147 feet, slag roof, composition floors (heating, plumbing and electric reserved), roof ventilators, waterproofing and damp-proofing, terra cotta, iron stairs, rolled steel sash, tile work, metal lath. Plans completed.

**High School**, Flourtown, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Springfield Township, Russell Y. Puling, Flourtown, Pa. Brick and stone. Plans completed. Owners will be ready for bids in about two weeks.

**Bakery (add.)**, Fourth and Vaughn streets, Harrisburg, Pa., \$25,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, River Side Baking Co., Herre Brothers, 1235 North Fourth street, Harrisburg, Pa. Brick, steel, 1 story, 48x80 feet, slag roof,

electric light, rolled steel sash. Plans in progress. Owner taking sub-bids.

**Residence**, Elkins Park, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, M. Aarons, care of architect. Frame and stucco, 2½ stories, 40x40 feet, electric lighting, hardwood floors, asbestos shingle roof. Plans completed. Architect ready for bids in a few days.

**Locomotive Shop (add.)**, Reading, Pa. Architect, Otto G. Herold, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Work contemplated. Preliminary plans drawn. Owners will take approximate bid.

**School Building**, near Lansdale, Montgomery Township, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Montgomery Township, H. Knapp, secretary, aLnsdale, Pa. Stone, 1 story, 85x77 feet, mechanical warm air heating, electric lighting, slate and slag roof, pine floors. Plans in progress.

**Locker House**, Edge Hill, Pa. Architect, P. S. Tyre, 1509 Arch street, Philadelphia. Owners, North Hill Country Club, on premises. Hollow tile and stucco, 2 stories, 42x92 feet, built-up asbestos roof, electric light, cement floors. Plans in progress. Architect will be ready for bids in two weeks.

**Residence and Apartment**, 115 East Third street, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows Building, Bethlehem, Pa. Owner, Louis Schwalb, 751 East Third street, Bethlehem, Pa. Brick, 3 stories, 20x100 feet, hot water heat, electric light, slag roof, pine floors, skylights, copper work, plate glass. Plans in progress.

**Garage and Apartment**, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Fred King, Bethlehem, Pa. Brick, 2 stories, 48x50 feet, hot water heat, electric light, slag roof, composition and pine floors, ventilators. Plans in progress. Owner ready for bids.

**School**, Frackville, West Mahanoy Township, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahanoy Township School Board, M. K. Coyle, secretary, Lost Creek, Pa. Frame, 1 story, 4 rooms. Owners ready for bids.

**Store, Garage and Apartment Building**, Scranton, Pa., \$18,000. Architect, Theodore Preitz, 313 Lackawanna avenue, Scranton, Pa. Owner, Frank Mendraeh, 1152 West Locust street, Scranton, Pa. Brick, 2 stories, 24x56

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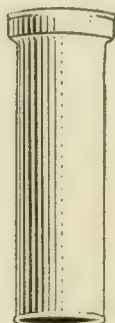
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feet. Plans being revised. Owners will be ready for bids in a few days.

**Store (alts.) to Bank**, Ashley, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, T. A. Curley, Newtown, Hanover Township, Pa. Stone, brick, bronze work, vault, tile work, bank fixtures. Plans in progress.

**High School**, St. Mary's, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg. Owners, St. Mary's Borough School Board, E. G. Beck, secretary, St. Mary's, Pa. Architects selected.

**Green House and Service House**, Colonial Park, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Park Place Nursery Co., Colonial Park, Harrisburg. Concrete block and stucco, 1 story, 24x94 feet, asbestos shingle roof, reinforced concrete floors, steam heat, electric light, water system. Plans in progress.

**Store**, West Side, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Mr. Leonard, care of architect. Stone, 1 story, 60x70 feet, steam heat, electric light, slag roof, composition floors. Plans in progress.

**School**, Shenandoah Heights, West Mahanoy Township, Schuylkill County, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahanoy Township School Board, M. K. Coyle, secretary, Lost Creek, Pa. Brick, 1 story, 6 rooms (steam heat, electric light reserved), asbestos shingle roof, pine floors, roof ventilators. Owners will be ready for bids next week.

**School (alts. and add.)**, Minooka, Pa. Architect, G. Price, Scranton Life Building, Scranton, Pa. Owners, St. Joseph's Roman Catholic School, Rev. P. E. Lavelle, Minooka, Pa. Frame, 2 stories, 34x50 feet, steam heat, electric light, pine floors, composition and shingle roof, metal lath, hollow tile, ventilators, general interior work. Plans in progress. Owners will sub-let.

**Store and Apartment**, Nanticoke, Pa. Architect, G. Price, Scranton Life Building, Scranton, Pa. Owner, Anthony Arrow, Nanticoke, Pa. Frame, 2 stories, 20x38 feet, shingle roof, pine floors, steam heat, electric light, metal ceilings. Plans in progress.

**School**, McAdoo, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, St. Mary's Roman Catholic Church, Rev. Joseph Borovec, McAdoo, Pa. Brick, 2 stories, 50x100 feet, slag roof, pine floors, steam heat, electric light, steel sash, metal ceilings, structural steel. Plans in progress.

**Church (alts.)**, Scranton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, St. Mary's Greek Catholic Church, care of architects. Steel work, art glass, electric light, general interior work, ornamental plaster. Architects ready for sub-bids.

**Church (alts.)**, Mountain Top, Pa. Architect, T. H. Atherton, Jr., Coal Exchange Building, Wilkes-Barre, Pa. Owners, Methodist Episcopal Church, care of architect. General interior alterations, art glass, steam heating, pine floors. Plans in progress. Architect will sub-let.

**Store and Apartment (alts. and add.)**, Harrisburg, Pa., \$25,000. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Mr. Acri, care of architect. Brick, 3 stories, 30x110 feet, slag roof, hardwood floors, electric light, metal lath, tile work, copper

work, plate glass. Owner taking sub-bids.

**Factory**, Elizabethtown, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, W. A. W. Shoe Co., Elizabethtown, Pa. Slow burning mill construction, 4 stories, 43x100 feet, slag roof, maple floors, steam heat, electric light, freight elevators, roof ventilators, rolled steel sash and skylights, fire doors. Owner will take sub-bids.

**Bank (alts. and add.)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Lancaster County Bank, care of architect. Brick, reinforced concrete, 1 story, 30x70 feet, composition roof, electric light, rolled steel skylights, metal window guards. Architect taking bids.

**Store Building**, Fourth and Market streets, Chester, Pa. Architect, Jesse C. Hoesktra, 1713 Sansom street, Philadelphia. Owner, name withheld. Brick, 3 stories and basement, 40x62 feet, steam heat, electric light, metal lath, marble work, hollow metal skylights, flush bulks, iron work, safety treads, metal ceilings, freight elevator, maple, composition and cement floors, slag roof. Plans about completed. Architect will be ready for bids in two weeks.

**School**, Rosemont, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Thomas' Roman Catholic Church, of Villa Nova, Pa., Rev. J. J. Hasson, rector, Rosemont, Pa. Brick and steel and terra cotta, 2 stories and basement, 60x90 feet. Architect will be ready for bids in ten days.

**Residence**, Wilkes-Barre, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, H. Murphy, Kingston, Pa. Brick, 3 stories and basement, 30x35 feet, 8x14 feet, hardwood floors, vapor heat, electric light, metal lath, tile work. Architect ready for bids.

**School**, Luzerne, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Sacred Heart Parochial School, Luzerne, Pa. Brick and stone, 2 stories, 8 rooms and auditorium, slag roof, pine floors, stone foundation, steam heat, electric light, metal lath, roof ventilators, skylights. Architects ready for bids.

**Store and Offices**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, care of architect. Brick and steel, 3 stories, 21x221 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights, terra cotta, steel stairs. Plans in progress. Architect will be ready for bids in one week.

**Residence and Garage**, Churchville, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, Alex. Auerbach, care of architect. Hollow tile and stucco, 2½ sto-

ries, 60x35 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Architect taking revised bids due as soon as possible.

**Club House**, Swarthmore, Pa. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owners, Women's Club of Swarthmore, Pa. Stone, 1 story and basement, 14x20 feet, removing trusses, raising ceilings, heating and lighting extensions, hardwood floors. Owners taking bids due as soon as possible.

**Residence (add.)**, Merion, Pa. Architect, Louis S. Adams, 1701 Chestnut street, Philadelphia. Owner Mrs. Percival E. Foderer, on premises. New bathroom, tile work, electric light, metal lath, plumbing. Architect taking bids due August 4th.

**Completion of Office Building**, Harrisburg, Pa. Architect, Arnold W. Brunner, 101 Park avenue, New York. Owners, State of Pennsylvania, Berkley H. Boyd, secretary, Department of Property and Supplies, Capitol Building, Harrisburg, Pa. Stone work, cement work, marble work, terrazzo, cork and wood floors, brick and hollow tile walls, plain and ornamental plaster, bronze and iron (heating and ventilating, electric work, plumbing, vacuum cleaning, refrigeration and elevators separate contracts). Owners taking bids due August 23rd at 10 A. M. (stand-ard time).

## Pennsylvania Contracts Awarded

**Barns (alts.)**, Marple, Pa. Architect, P. A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Saints Peter and Paul Cemetery, Marple, Pa. Brick, 1 and 2½ stories, 58x38 feet, composition roof, cement floors, electric lighting, painting and glazing, carpentry and mill work, plastering, plumbing, ornamental iron work. Contract awarded to Doyle & Co., 1509 Sansom street, Philadelphia.

**School**, Stroudsburg, Pa. Architect, Harold T. Rinker, Henry Building, East Stroudsburg, Pa. Owners, Stroudsburg School Board, B. F. Morey, secretary, Stroudsburg, Pa. Brick and hollow tile, 1 story, 60x193 feet, composition roof, pine floors, vapor heat, electric light, metal lath, tile work, roof ventilators. Contract awarded to Shiffer Brothers, Stroudsburg, Pa.

**Store and Apartment House**, Harrisburg, Pa. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owner, Lewis Silbert, 23 South Fourth street, Harrisburg, Pa. Brick, 3 stories, 20x100 feet. Architect taking bids.

**School (elementary)**, North Queen street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, School

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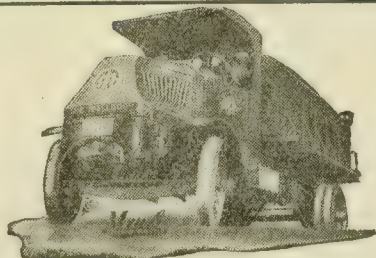
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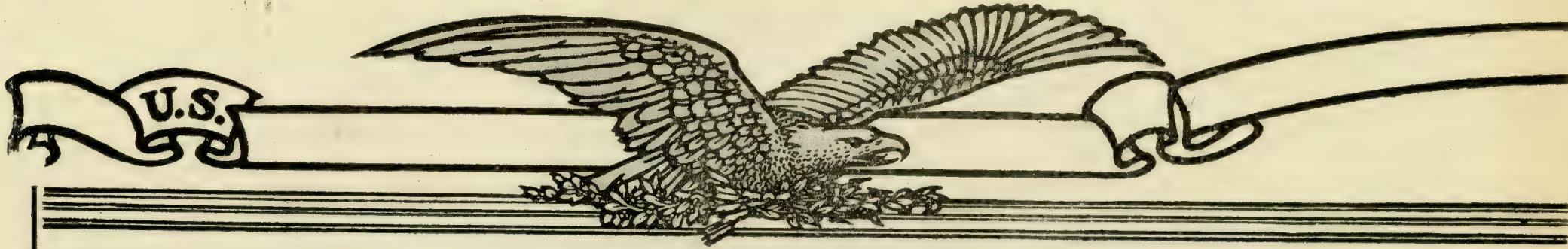
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 176 Radiators  
 42 Ranges

## Camp Meade, Md.

1,082 Structures  
 15,370,135 BM ft. Lumber  
 44,591 Sash  
 5,089 Doors  
 2,699 Radiators  
 589,107 ft. Electric Wire  
 1,683 Electric Switches  
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 1,146 Toilet Bowls and Tanks  
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Fort Humphreys, Va., August 24th

Camp Meade, Md., August 28th

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A catalog has been prepared on each Auction, and all of them may be secured by writing to the Q. M. General, Room 2026 Munitions Building, Washington, D. C., or the three official auctioneers conducting these sales. The Camp Dix Auction is to be conducted by Gordon & Williams, 432 Fine Arts Building, Detroit, Mich.; the Fort Humphreys sale by John J. Erwin, 582 Newark Street, Jersey City, N. J.; the Camp Meade Auction by Bryan L. Kennelly, 149 Broadway, New York City.

The boxes on the opposite page list the major items at each cantonment.

*Specifications of sales may be obtained by writing the Quartermaster  
at respective cantonment.*

*The Government reserves the right to reject any or all bids.*

# ARTMENT



Board of Lancaster, H. J. Newell, Administration Building, Prince and Chestnut streets, Lancaster, Pa. Brick, cinder block, 2 stories, 204x140 feet, tile and composition roof, hardwood floors, metal lath, tile work, safety treads, roof ventilators (heating, plumbing and electric reserved), waterproofing and dampproofing, iron stairs and work. Contract awarded C. W. Strayer, Harrisburg, Pa. Plumbing and heating, Everts & Overdeer, Lancaster, Pa. Electric, John P. Pfenninger, Lancaster, Pa.

**Residence and Garage**, Pottsville, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, F. J. Fisher, Pottsville, Pa. Brick and tile, 2½ stories, hot water heat, electric light, metal lath, tile work, green slate roof, concrete foundations, cement and hardwood floors. Contract awarded to Jacob Kilgus, Pottsville, Pa.

**Residence**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owner, W. Rockefeller, Sunbury, Pa. Brick, hollow tile and stone, 3 stories, 38x62 feet, slate roof, linoleum, parquet and oak floors, quarry tile, kitchen equipment, dumb waiters, coal range, lunkin windows, ornamental iron work, fireplaces, brick, tile and marble work, 3 baths, electric light, vapor heating, incinerators. Contract awarded to Albert Boyers, Northumberland, Pa.

**Residence**, Swarthmore, Pa. Architect, J. L. Connaroe, 225 Sydenham street, Philadelphia. Owner, name withheld. Stone, frame and stucco, 2½ stories, 42x30 feet, 10x18 feet, shingle roof, hardwood floors, yellow pine and tile floors, hot water heat, electric light, two enclosed porches. Contract awarded Lockhart & Simon, 1524 Chestnut street, Philadelphia.

**Swimming Pool**, Wyncote, Pa. Architect, private plans. Owner, Arthur C. Best, on premises. Reinforced concrete, 25x60 feet, waterproofing. Contract awarded to Nelson Pedley, 1615 Spruce street, Philadelphia.

**Residence**, Haverford, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Samuel S. Thornton, Thornton-Fuller Auto Co., Parkway, East of 18th st., Phila. Stone, cut stone, 2½ stories, 60x41 feet, hot water heat, electric light, metal lath, copper skylight, bond, iron work, slate roof, oak and pine floors. Contract awarded E. J. Heddon Co., Finance Building, Philadelphia.

**Bungalow**, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, J. W. Fahnestock, care of architect. Brick, 1½ stories, 28x36 feet, asphalt shingle roof, pine floors, electric lighting, tile work. Contract awarded to West Shore Lumber Co., Lemoyne, Pa.

**Club (alts. and add.)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Iris Club, care of Mrs. S. W. Cramer, 323 North Duke street, Lancaster, Pa. Brick, 2 stories, 20x32 feet, slate roof, composition and pine floors, electric lighting. Contract awarded to H. L. Wiant, 544 Mill street, Lancaster.

**Residence**, Easton, Pa. Architect, E. R. Biting, Odd Fellows' Building, Bethlehem, Pa. Owner, name withheld. Brick, 2½ stories, 28x35 feet, slag roof, hardwood floors, hot water heat, electric lighting, tile work. Contract awarded to H. E. Stoudt & Son, 424 Avenue C, Bethlehem.

**School (add.)**, Factoryville, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Factoryville School Board, care of Mr. Watkins, Factoryville, Pa. Brick, steel, 2 stories, 40x60 feet, slag roof, yellow pine floors (heating, plumbing and electric work reserved). Contract awarded to Mr. Reynolds, Factoryville, Pa.

**Store and Apartment (alts. and add.)**, Plymouth, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Own-

er, Joseph Osheroff, Plymouth, Pa. Steel, frame, brick, 2 stories, 18x20 feet, pine floors (heating, electric work and plumbing reserved), slag roof, pine floors, metal lath, rolled steel sash, cut stone. Contract awarded to William Whitesell, Kingston, Pa.

**Residence**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, J. F. Schmidt, 406 Park avenue, Wilkes-Barre, Pa. Frame, 2½ stories, 40x30 feet, asphalt shingle roof, hardwood floors, electric light. Contract awarded to Carl German, Wilkes-Barre, Pa.

**Warehouse**, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Braman & Company, Wilkes-Barre, Pa. Slow burning construction, 3 stories and basement, 100x110 feet, slag roof, pine floors, electric light, freight elevators, rolled steel sash, fire doors, fire tower, dampproofing, iron stairs. Contract awarded to O. J. Behrens & Son, 179 Blackman street, Wilkes-Barre.

**Residence**, Kingston, Pa. Architect, T. H. Atherton, Jr., Coal Exchange Building, Wilkes-Barre, Pa. Owner, G. Fersenbach, West River street, Wilkes-Barre, Pa. Frame, 2½ stories, 25x60 feet, shingle roof, hardwood floors, tile work, electric lighting. Contract awarded to Miles J. Fry, Pittston, Pa.

**Church**, Pittston, Pa. Architect, T. H. Atherton, Jr., Coal Exchange Bldg., Wilkes-Barre, Pa. Owners, Lackawanna Presbyterian Church, care of architect. Brick, 1 story and basement, 30x70 feet, metal roof, pine floors (heating reserved), electric light, metal lath, ornamental iron work. Contract awarded to Alimo Brothers, Pittston, Pa.

**Store and Apartment (alts. and add.)**, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Frame, 2 stories, 30x40 feet, slate roof, pine floors, steam heat, electric light. Contract awarded to Fred Eddy, 266 Horton street, Wilkes-Barre.

## New Jersey Construction News

**Residence**, Bordentown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Albert Bennett, care of architect. Frame, 2½ stories, 28x32 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Ice Storage Building**, Trenton, N. J. Architect, H. G. Atkin, American Mechanics' Bank Building, Trenton. Owner, name withheld. Brick and steel, 1 story, 75x100 feet, slag roof. Plans in progress.

**Warehouse**, 3612 Atlantic avenue, Atlantic City, N. J. Architect, George S. Kingsley, 2266 Broadway, New York City. Owners, Eldridge Chelsea Warehouse Co., 110 North Carolina avenue, Atlantic City, N. J. Reinforced concrete, brick, granite and steel, 6 stories, 159x65 feet, steam heat, electric light, metal lath, tile and marble work, galvanized iron skylights, hollow metal doors, bond, iron work, Barrett and slag roof, concrete and granolithic floors, hollow tile, elevators, waterproofing, terra cotta, sprinkler system. Architect taking bids due August 8th.

**Sewage Disposal Plant, Sewage Pumping Station Out Fall Sewer**, Pensauken Township, Camden County, N. J. Engineers, Remington & Vosbury Co., 601 Market street, Camden, N. J. Owners, Township Comm. of Township of Pensauken, Robert V. Peabody, Township Clerk, Township Hall, Cove Road and Center street, Pensauken, N. J. Construction of sewage disposal plant, two electrically operated sewage pumping stations, approximately 6,700 lineal feet of 20-inch terra cotta sewer pipe, bond. Deposit, \$15. Refund, \$10.

Owner taking bids due August 13th, 8 P. M. (daylight saving).

**Building (new front)**, 941 Broadway, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, J. Berkman, on premises. Limestone front, 3 stories, general alterations, bulk windows. Plans in progress. Owner will sub-let.

**Store and Apartment**, Vineland, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, A. J. Daley, care of architect. Cement block, 2 stories, 42x60 feet, slag roof, pine floors. Plans in progress.

**Residence**, Woodbury, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, W. Hann, Woodbury, N. J. Frame, 1½ stories, 26x36 feet, asbestos shingle roof, pine floors, hot air heat, electric light. Plans in progress.

**Road Work**, New Jersey. Owners, State Highway Commission, Trenton, N. J. Route 13, Section 6, Lawrenceville to Princeton, Mercer County, 29,685 cubic yards excavation, 76,235 square yards foundation, Type C, plain concrete, 8-inch thick, 25,612 lineal feet concrete curb. Owners taking bids due August 2nd, at 11 A. M. (standard time).

**Road Work**, New Jersey. Owners, County of Monmouth, Board of Chosen Freeholders, Freehold, N. J. Engineer, George D. Cooper, C. E., 60 Broad street, Red Bank, N. J. Reconstruction of extension to Farmingdale-Manasquan road. Owners taking bids due August 8th at 11 A. M. (daylight saving time).

## New Jersey Contracts Awarded

**Office Building**, 509 Cooper street, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Remington & Vosbury, Court House Square Building, Camden. Reinforced concrete, cinder block, stucco and cast stone, 1 story, 43x29 feet, 2 stories, 20x36 feet (heating separate), electric light, metal lath, tile and marble work, rolled steel sash, galvanized iron skylights, tin covered doors, bond, iron work, slag roof, linoleum, cement and yellow pine floors, roof ventilators. Contract awarded to H. A. Fearn, Forty-first and Westfield avenue, Camden.

**Store and Apartment and Green House**, Salem, N. J. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Miss Grace Wakelin, Quinton, N. J. Concrete and hollow tile, 2½ stories, 25x60 feet, plumbing, slate roof, steam heating, electric lighting, greenhouse, 9x60 feet, 35x35 feet. Contract awarded E. Leslie Sutton, Salem, N. J.

**Residence**, Lenape avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, W. J. Bickett, 28 Newell street, Trenton, N. J. Brick, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work. Contract awarded to Karno-Smith Co., Broad Street Bank Building, Trenton, N. J.

**Residence (alts. and add.)**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Dr. Horace D. Bellis, 437 East State street, Trenton, N. J. Brick, 1 story operating room addition, composition floors, tile work, general interior alterations. Contract awarded to Harrison & Fisher, Trenton, N. J.

## Delaware Construction News

**Warehouse**, Wilmington, Del. Architect, not yet selected. Owners, Holstein Harvey, Inc., Delaware Trust Building, Wilmington, Del. Concrete and steel, 8 stories. Too early for details.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
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Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
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## CEMENT WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....1310 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. ....Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
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## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Thos. F. Gibson. ....Franklin Trust Bldg., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamonds Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
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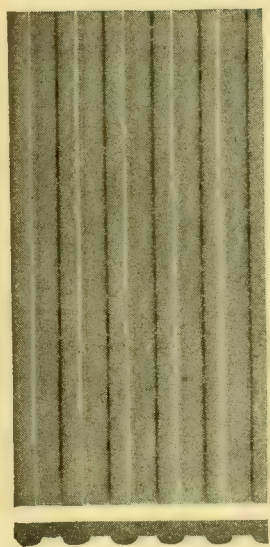
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Vol. XXXVIII, No 32  
August 8, 1923

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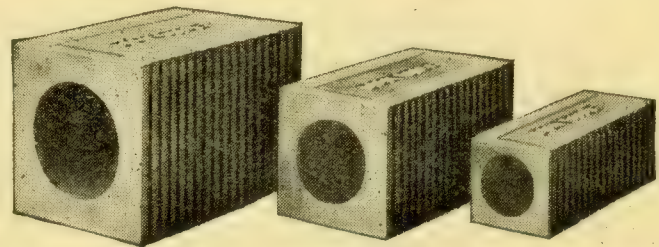
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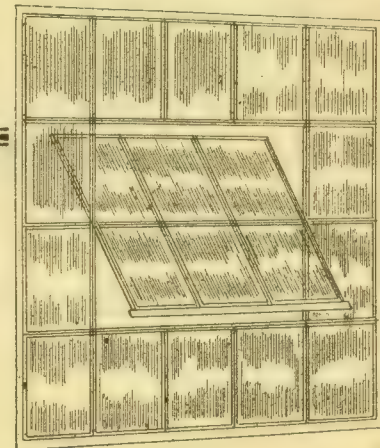
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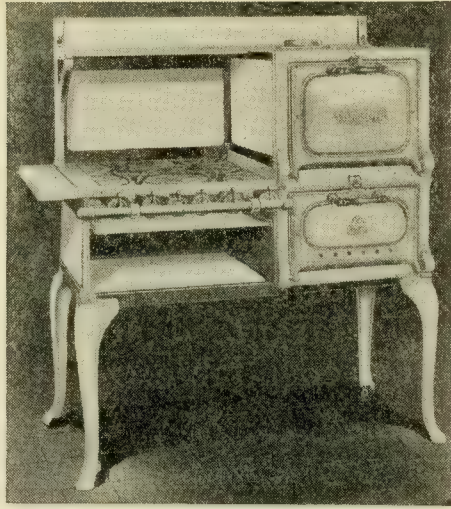
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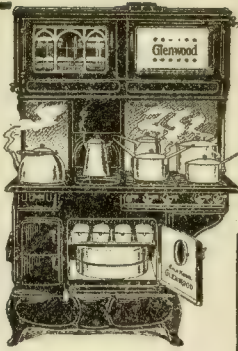


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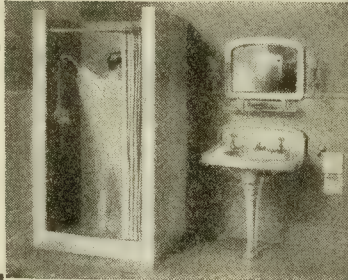


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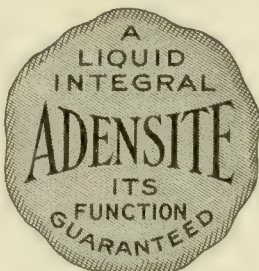
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 32

PHILADELPHIA  
August 8, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### HOW PAINT AFFECTS INTERIOR ILLUMINATION

By SAMUEL G. HIBBEN, *Illuminating  
Engineer*

Very few people are fully aware of the surprising influence that colors, densities and surface finishes of paint may have upon both the quality and amount of artificial or even natural indoor illumination. In fact, it has been only within the past year or two that careful study has been undertaken along this line, and we can fully expect that architects and engineers will continue to take more and more interest in the subject, as we gain in knowledge of eye comfort, economics of night lighting, and costs of maintenance of lighting systems and interior surfaces.

A few months ago an engineer made up two gray shades, using different tinting colors in producing them. Then the two grays were coated upon wood and metal, and samples when dried tested for their light reflecting properties. Even though the color match was perfect, yet one of the paints invariably absorbed more light than did the other. The obvious conclusion was that most all ingredients in paint have a decided influence upon their efficiency as light reflectors, and that colors or tints alone are not the sole criteria of illuminating efficiency.

Further studies have been made that

lead to other interesting and valuable conclusions, but in order to better understand the inter-action of light and interior surface coatings, the following points should be kept in mind.

Light, such as from an electric lamp, penetrates further into some surface films than in others. If light reflects from a dense surface, or as it would do from a highly glazed paint, it would naturally remain unchanged in color. This action may be seen by reflecting a ray of white light from a sheet of red glass, and observing that the reflected ray still remains uncolored, i. e., white. But if the light penetrates somewhat into the surface, it will be redirected back with a change in color, just as the ray of white light which passes through the sheet of red glass will emerge red. The ordinary mixture of ochre and oil applied to a tin roof will illustrate this coloring action of the painted surface upon light, because here the diffusely reflected light of the sun will be decidedly pink.

The commercial application of this fact is full of possibilities. If a merchant desired to secure artificial illumination in a store which would approach or approximate daylight in color-quality, he might use the daylight blue Mazda lamps in the lighting units, but might absolutely counter-act the color correcting action of the blue glass of the lamps or the enclosing globes by using a yellow or red shade of interior paint. Conversely, in

a residence room, most people, particularly the feminine folk, prefer a warm, cozy atmosphere, and the original while light of either day or night illuminants can be made slightly golden or less harsh and cold by carefully selecting ceiling and wall colors of rich cream, old ivory, or tan.

No good paint salesman would allow a jeweler to use gray or green colors in a room where pearls were sold; neither would he recommend yellow or red walls to surround display of cut-glass, silverware or diamonds. If an office in a modern city skyscraper had a northern or north sky exposure, it usually should be finished in cream rather than gray or greenish colors. If rooms face the south, and have a large amount of direct sunlight, the dictates of eye-comfort say use light grayish-green colors on walls.

Some of the greatest mistakes in painting are those which arise through a misunderstanding of the laws of light reflection. One very favorite and wrongly used expression, when speaking of reflected light is that "the angle of reflection equals the angle of incidence." Every one should carefully note that this law holds true for only the surfaces, like mirrors, polished metal, or modified conditions, like a highly polished and varnished surface. The actual fact is that when light is reflected from a matt, stippled or depolished surface it will be spread out much, and the majority of it will be redirected back

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normal or perpendicular to the painted surface regardless of the direction from which it originally came. For this reason it is of no benefit to have glossy finishes of painted surfaces in fact, the amount of light reflected therefrom is usually no greater than that reflected from a matt surface, and shiny surface finishes create bright images of light sources, hence augment glare.

Paint colors have a tremendous effect upon the quantity of usable illumination. In smaller roomers this effect is so great that one may well emphasize it repeatedly.

Suppose we have two small rooms, one finished in a dirty yellow color that has a reflecting value, or co-efficient of 70 per cent.; the other finished in medium cream color with a co-efficient of 80 per cent. The direct light on the table in the first room would be increased (by virtue of multiple interior reflections) by 3.3. The increase in the second room would be 5.0. If a 150-watt Mazda lamp furnished sufficient illumination in the first room, then a 100-watt lamp would furnish about the same illumination in the second.

The cost of painting with a good cream color would be no greater than applying the darker yellow, yet in the darker interior the cost for lighting power to produce the same illumination would be 50 per cent. greater.

It will at once occur to any thoughtful person that it may pay to refinish a dingy or dirty interior, because thereby the useful illumination can be so greatly increased, or the lighting costs so greatly reduced. Savings in electric power usually can more than offset costs for painting.

Painting for light is a very vital subject. The proper cleaning of painted surfaces is likewise important, but that will be sufficiently interesting in itself to form another article.

—Paton's Monthly.

### TESTS POINT WAY TO SAFER ELEVATORS

*Seventy-five Per Cent. of Fatal Accidents Preventable United States Bureau Finds*

About three-fourths of all fatal elevator accidents are found to occur at the hoistway door, either because of the door being opened when the elevator is not there or because of the elevator starting when the door is open. These accidents can be prevented by a reliable interlock, as when such a device is used the elevator must be stopped at the floor before the door can be opened and the door must be closed before the car can be started again.

During the past year the Bureau of

Standards has been conducting tests to determine the reliability of the various types now on the market. The devices have been given endurance tests under normal conditions, they have been tested in a corrosive atmosphere, in a dust laden atmosphere, without lubricator, and under conditions of misalignment likely to occur in practice.

The tests were conducted at the request of the City of Baltimore, and will permit city governments to base their approval of such devices on actual performance tests instead of on visual inspection alone. The results have also been made available to the manufacturers of the devices tested, and in most cases they have improved their designs in accordance with the suggestions offered.

### QUICK-SETTING LIME BLOCKS DEVELOPED BY BUREAU OF STANDARDS

A cast lime building tile for use in making partitions has been developed at the Bureau of Standards by the Fellow of the National Lime Association. The material of which it is made sets so that it can be removed from the mold at the end of ten minutes. After twenty minutes it can be handled, and after seven days it has a compressive strength of one hundred pounds per square inch. It can be sawed, and nails can be driven into it.

The material is composed of five parts by volume of ground quick lime, ten of hydrate or slaked lime, and one of wood fiber. It is found to cure best when outdoors exposed to the weather. The new tile is about twenty per cent. heavier than gypsum tile of the same size, and experiments are being conducted to see if the core volume can be increased without too great a sacrifice of strength.

The quick setting lime of which the tile is made was developed several months ago by the Bureau of Standards, and can also be used for other purposes. Difficulty is found in shipping it, however.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Manufacturing Building**, Sixty-third and Eastwick avenue, Philadelphia. Architect, Albert Kahn, Detroit, Mich. Owners, Ford Motor Car Co., Detroit, Mich. Reinforced concrete and steel, 1 story, 400x920 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Plans in progress. Architect will take general bids.

**Residence and Garage**, Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 25x30 feet, garage, brick and stucco, 1 story, 18x20 feet, asphalt shingle roof, cement, pine and hardwood floors, heating undecided, electric lighting. Plans in progress.

**Grand Stand**, Frankford avenue and Devereaux street, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owners, Frankford Athletic Association, care of architect. Frame and timber, 25x360 feet, plumbing, showers, concrete footing. Plans in progress.

**Store and Apartments**, Southeast Corner Thirty-fourth and Spring Garden streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld, care of architect. Brick, 3 stories, 18½x122 feet, slag roof, yellow pine and hardwood floors, demolition, hot water heat, electric light, tile work, metal lath, bond. Revised plans in progress. Will be ready for bids in one week.

**Store and Apartments (alts. and add.)**, Southwest Corner Darien street and Moyamensing avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Paul Denenberg, care of architect. Brick, 2 stories, 20 feet 9 inches x 30 feet, slag roof, yellow pine floors, demolition, hot water heat, electric light, tile work, metal lath, hollow metal skylights, store fixtures, flush bulks, bond. Plans completed.

**Restaurant and Office Building**, 333-35-37 South Sixteenth street, Philadelphia, \$800,000. Architect, C. L. Borie, Jr., Otis Building, Philadelphia. Owner, J. Bechner Anderson, 1524 Chestnut street, Philadelphia. Brick, steel, concrete, 12 stories. Preliminary plans in progress. Work contemplated.

**Car Barn**, Nineteenth street, Johnson street,

Twentieth street and Moyamensing avenue. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 810 Dauphin street, Philadelphia. Brick, concrete, steel. Will contain wash and inspection bay, repair shop, office and store room. Preliminary plans in progress. Owners will build in spring of 1924.

**Shop**, Tenth and Erie avenue, Philadelphia. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 810 Dauphin street, Philadelphia. Preliminary plans in progress. Work contemplated.

**Church**, Welsh Road and Erdrick street, Holmesburg, Philadelphia. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owners, Mt. Zion Baptist Church, care of architects. Brick, 40x90 feet, slate roof, maple floors, heating undecided, electric lighting. Plans completed. Ready for bids in few days.

**Residence, Stores and Apartments (34)**, Camac street, from Olney to Chew. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Otto and Albert Steinacker, 3958 North Fifth street, Philadelphia. Brick, 2 stories, 16x40 feet, 17x40 feet and 20x40 feet, slag and tin roof, hardwood and pine floors, hot water heat, electric light, metal lath, cement work, plate glass. Owner ready for sub-bids.

**Store and Residence**, York Road and Rockland street, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 2 stories, 14x40 feet, slag roof, pine floors, heating undecided, electric lighting. Architect taking sub-bids.

**Residences (10)**, South side Felton street, North of Lansdowne avenue, \$6,500 each. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, F. Joseph Roach, 5213 Chestnut street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will build.

**Club House**, 3320 North Broad street, Philadelphia. Architect, private plans. Owners, Philadelphia Tyrians, care of Paul Wendler, 3320 North Broad street. Brick and steel, 3 stories, 50x100 feet, slag roof, maple floors, steam heat, electric light, metal lath, tile and

marble work, elevators, terra cotta. Owners taking bids due August 13th.

**Sales and Service Building**, Cheltenham avenue, East of Wayne avenue, Philadelphia. Architect, P. S. Tyre, 1509 Arch street, Philadelphia. Owners, Koelle-Greenwood Co., 6025 Germantown avenue, Philadelphia. Brick, 2 stories. Architect taking bids due August 22nd at 4 P. M.

**Garage**, Northwest side Allen Lane, below Wissahickon avenue and Green street. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, W. J. Faux, on premises. Stone, 2½ stories, 43x34 feet, slag and slate roof, cement floors, metal lath, bond. Architect taking bids due August 10th.

**Residence**, Mt. Airy, Philadelphia. Architect, private plans. Owner, Elwood Wentz, Sedgwick, Pa. Stone, 2½ stories, 40x20 feet, 20x16 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids due as soon as possible.

**Store (alts. and add.)**, Fifty-fourth and Girard avenue, Philadelphia. Architect, J. S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, Guy Z. Baum, on premises. New store front, bulk windows, carpentry, mill work, oak floors, painting. Architect taking bids due as soon as possible.

**Hospital (alts.)**, York Road and Tabor Road, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Jewish Home for the Aged, on premises. New bathrooms, new lavatories and equipment, tile and marble work, cement work. Architect taking bids due August 9th.

**Apartment House**, City Line and Berwick avenue, Overbrook, Philadelphia. Architects, Wallace & Warner, 1012 Walnut street, Philadelphia. Owners, Yorklynne Apartments, care of architects. Brick, caen stone, artificial and cut stone, 7 stories, 109x150 feet, Barrett and cement roof, hardwood floors, elevators, vapor vacuum heat, electric light, metal lath, tile and marble work, iron stairs, ornamental iron work. Architects taking bids due as soon as possible.

**Piers Nos. 97, 98 and 99**, foot of Oregon avenue, Philadelphia. Architects, private plans. Owners, United States Shipping Board, Shipping Board Emergency Fleet Corporation, care of J. M. Hoffman, head, Division of Docks and Wharves, 1907 Navy Building, Washington, D. C. Repairs to substructure and decks of portion of piers, bond. Owners taking bids due August 28th at 11 A. M. Deposit of \$25.00. Refund, \$25.00. Certified check, \$5,000. Property may be inspected upon application to District Agent, United States Shipping Board, Emergency Fleet Corporation, 140 North Broad street, Philadelphia.

**Swimming Pool**, Hedge and Orthodox streets, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall, Philadelphia. General construction, plumbing

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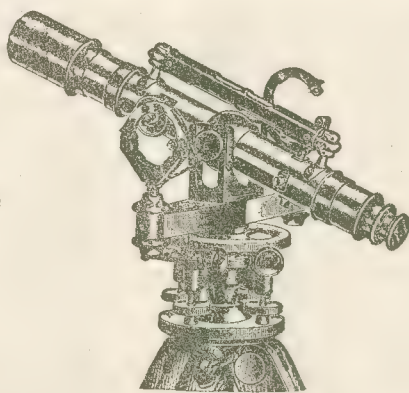
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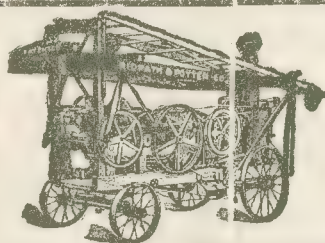
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and electric work. Owners taking bids due  
 August 14th at 12 M. (standard time).

**Swimming Pool**, Thirty-second and Ridge  
 avenue, Philadelphia. Architect, John B. P.  
 Sinkler, 1211 Chestnut street, Philadelphia.  
 Owners, Department of Public Welfare,  
 Bureau of Recreation, 595 City Hall, Phila-  
 delphia. General construction, plumbing and  
 electric work. Owners taking bids due  
 August 14th at 12 noon (standard time).

**Hancock Playground**, Hancock and Jeffer-  
 son streets, Philadelphia. Architect, J. P. B.  
 Sinkler, 1211 Chestnut street, Philadelphia.  
 Owners, Department of Public Welfare,  
 Bureau of Recreation, 595 City Hall, Phila-  
 delphia. Grading, fencing, plumbing and  
 drainage systems. Owners taking bids due  
 August 14th at 12 noon (standard time).

**Garage and Stores (alts.)**, Northwest Cor-  
 ner 21st and Market streets, Philadelphia.  
 Architects, Hoffman, Henon, Inc., Finance  
 Building, Philadelphia. Owner, name with-  
 held. Concrete and cement work, brick work,  
 structural steel and iron work, metal win-  
 dows, rolled steel sash, carpentry, mill work,  
 metal lath, plastering, hardware, electric  
 work, plumbing, steam heating, bond. Ar-  
 chitects taking bids due August 9th.

**Residences (32)**, Forty-eighth and Larch-  
 wood avenue, Philadelphia, \$244,000. Archi-  
 tect, private plans. Owners, West Philadel-  
 phia Realty Const. Co., 5443 Locust street.  
 Brick, 2 stories, various sizes, slag roof, hard-  
 wood and pine floors, hot water heat, elec-  
 tric light, tile work. Owner will build.

**Residences and Garages (10)**, Sixty-fourth  
 and Buist avenue, Philadelphia, \$50,750. Ar-  
 chitect, private plans. Owner, Rufus S.  
 Mitchell, 5421 Woodland avenue, Philadel-  
 phia. Brick, 2 stories, various sizes, slag roof,  
 hardwood and pine floors, hot water heat,  
 electric light. Owner will build.

**Gargae**, North side Glenwood avenue, West  
 of Thirtieth street, Philadelphia, \$35,000. Ar-  
 chitect, private plans. Owners, Philadelphia  
 Realty Co., 111 West Mt. Airy avenue, Phila-  
 delphia. Brick, 1 story, irregular size, slag  
 roof, cement floors, steel sash, steam heat,  
 electric light. Owners will build.

**Garages (2)**, (1) 7208 Elmwood avenue and  
 (1) Southeast Corner Woodlawn avenue and  
 Sprague street, Philadelphia, \$60,000. Archi-  
 tect, private plans. Owner, J. Presper Eck-  
 ert, 111 West Mt. Airy avenue, Philadelphia.  
 Brick, 1 story, irregular size, and 1 story,  
 95x100 feet, slag roof, cement floors, steel  
 sash, steam heat, electric work. Owner  
 builds.

**Storage Building**, South side Wolf street,  
 West of Thirty-sixth street, \$40,000. Archi-  
 tect, private plans. Owners, Atlantic Refin-  
 ing Co., 3144 Passyunk avenue, Philadelphia.  
 Iron, 1 story, 40x75½ feet.

**Residences (5)**, West side Sixteenth street,  
 North of Sixty-eighth avenue, \$38,000. Ar-  
 chitect, private plans. Owner, Ray R. Raf-  
 erty, 4128 North Broad street, Philadelphia.  
 Brick, 2 stories, 16x62 feet, (4) 16x31 feet,  
 12x11 feet, slag roof, hardwood and pine  
 floors, hot water heat, electric light, tile  
 work. Owner will build.

**Residences (45)**, Fifty-sixth and Berks  
 streets, Philadelphia, \$252,500. Architect, pri-  
 vate plans. Owner, Marco Marks, 4739 North  
 Tenth street, Philadelphia. Brick, 2 stories,  
 17x50 feet, 19x50 feet and 15x44 feet, slag  
 roof, hardwood and pine floors, hot water  
 heating, electric lighting, tile work. Owner  
 will build.

**Residences (6)**, North side Tyson street,  
 West of Rising Sun avenue, \$4,200 each. Ar-  
 chitect, private plans. Owner, Harry F.  
 Harting, 7403 Rising Sun avenue, Philadel-  
 phia. Frame, 2 stories, 20x29 feet, hardwood  
 and pine floors, electric lighting. Owner will  
 build.

**Residence**, East side Ditman street, North  
 of Linden avenue, \$3,500. Architect, pri-  
 vate plans. Owner, Chancellor Day, 3503 De-  
 catur street, Philadelphia. Frame, 2 stories,  
 25x37 feet, electric lighting. Owner will  
 build.

**Residences (2)**, 5326-28 Wingohocking Ter-  
 race, \$4,500 each. **Garage**, rear of 5301 Bel-  
 field avenue, Philadelphia, \$3,000. Architect,  
 private plans. Owner, William C. Wether-  
 stine, 124 East Upsal street, Philadelphia.  
 Brick, 2 stories, 15x38 feet, 10x12 feet, hot  
 water heat, electric light. Garage, stone, 1  
 story, 90x17½ feet, cement floors. Owner  
 will build.

**Garages (2)**, West side Sixty-fourth street,  
 North of Dickens avenue, \$4,700. Architect,  
 private plans. Owners, Florence and Joseph  
 Leatherman, Sixty-fourth and Elmwood ave-  
 nue, Philadelphia. Brick, 1 story, 135x20  
 feet, and 1 story, 50x20 feet, slag roof, ce-  
 ment floors, electric lighting. Owners will  
 build.

**Store (alts. and add.)**, 1225 Chestnut street,  
 Philadelphia. Architect, C. H. Friedland, 505  
 Fifth avenue, New York. Owners, I. Miller  
 Shoe Shop, on premises. Architect taking  
 bids due August 9th.

**Garages (2) (add.)**, South side Allengrove  
 street, East Darroh, \$5,000. Architect, pri-  
 vate plans. Owner, George S. Wardle, 1687  
 Harrison street, Philadelphia. Brick, 1 story,  
 40x18 feet, slag roof, cement floors. Owner  
 will build.

**Garage**, West side Cemetery Lane, North  
 of Baltimore and Ohio Railroad, \$5,000. Ar-  
 chitect, private plans. Owner, George H.  
 Farrell, 6355 Greenway avenue, Philadelphia.  
 Brick, 1 story, 18x27 feet, 10x17 feet, slag  
 roof, cement floors. Owner will build.

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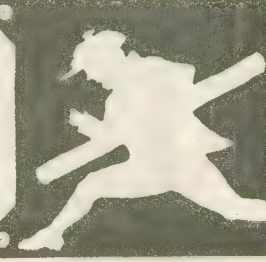
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**Stores (2) and Garage**, 3531-33-35 Levick street, \$7,900. Owner, Joseph De Guigio, on premises. Brick, 1 story, each 17x17 feet, electric lighting, slag roof, pine and cement floors. Owner will build.

**Residence**, Southeast Corner Rustleton avenue and County Line, \$4,000. Architect, private plans. Owner, C. E. Platt, 4542 Richmond street, Philadelphia. Frame, 2 stories, 26x40 feet, 10x10 feet, electric work. Owner will build.

**Residence**, Northeast Corner Torresdale avenue and Aubrey street, \$9,000. Architect, private plans. Owner, R. B. Wolfer, 2840 Aramingo avenue, Philadelphia. Brick, 2 stories, 36x36 feet, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence (alts. and add.)**, Southeast Corner Sedgwick and Cresheim Road, \$3,000. Architect, private plans. Owner, J. Klebe, on premises. New porch, 9 feet 8 inches x 14 feet, general alterations. Owner will build.

**Store and Storage Building**, 4931 Lancaster avenue (rear), \$4,000. Architect, private plans. Owner, M. De Marco, on premises. Brick, 2 stories, 40x32 feet, slag roof, electric work, pine and cement floors. Owner will build.

**Store (alts.)**, 800 North May street, Philadelphia, \$2,000. Architect, private plans. Owner, J. Clark, 150 South Fifteenth street, Philadelphia. Flush bulks. Owner will build.

**Garage**, 5712 Crittenden street, Philadelphia, \$2,000. Architect, private plans. Owner, W. J. Cowell, 5712 Crittenden street, Philadelphia. Brick, 1 story, 58x19 feet, slag roof, cement floor. Owner will build.

**Store and Office**, East side Bouvier street, North of Master, \$2,000. Owner, Louis Elgart, 5232 Parkside avenue, Philadelphia. Brick, 2 stories, 18x20 feet, hot water heat, electric light. Owner will build.

**Main Building (add.)**, Brown's Farms, Forty-first Ward, Torresdale, Pa. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, Room 592, City Hall, Philadelphia. Brick and stone, 1 story, 36x37 feet, slag roof, composition floors, cement and pine floors, roof ventilators, iron work, bond, marble work, metal lath. Low bidders: F. A. Havens, 845 North Nineteenth street, Philadelphia, \$13,000. George H. Evans, Inc., 105 North Thirteenth street, Philadelphia, \$13,771.

**Dawson Street Bridge**, over Philadelphia & Reading Railway, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Highways, City Hall. Lowest bidder: Montgomery Iron & Steel Co., Ninth and Berks streets, Philadelphia, \$6,158.

**South Street Bridge**, Philadelphia. Architect, private plans. Owners, Bureau of High-

ways, City Hall, Philadelphia. Lowest bidder: George B. Clopp, 3717 Filbert street, Philadelphia, \$11,136.50.

**Independence Hall (alts.)**, Philadelphia. Architect, John B. P. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Lowest bids: Lawrence W. Hurley, Bulletin Building, \$31,825; George F. Dobbin, 1020 South Forty-seventh street, \$33,500.

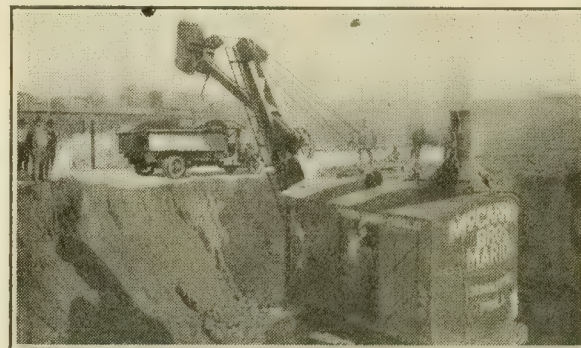
**Residence**, 433 West Johnson street, Germantown, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Mrs. George W. Gormley, 1658 Lincoln avenue, Philadelphia. Brick, 2½ stories, 25x40 feet, wing 18x20 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Store and Apartments (alts.) and (add.) (2 Stores)**, Northwest Corner Broad and Montgomery avenue, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Mone Isaacs, The Marilyn, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, pine floors, hot water heat, electric lighting, painting, glazing, plumbing, changing partitions, structural steel, metal ceilings, sheet metal work, flush bulks. Architect has received bids.

**Paving, etc.**, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of Highways, 232 City Hall, Philadelphia. Grading, asphalt paving and repaving, country road improvement, asphalt paving. Owners taking bids due August 14th at 11 A. M. (standard time).

The Builders' Specialty Company, manufacturers of concrete specialties, have opened a plant at Front and Berks streets, Philadelphia, with offices at 1844 North Front street. They manufacture a full line of hardeners, colors and waterproofing for cement mixtures. The officers of the new company are: G. C. Orth, President; G. W. Orth, formerly District Manager of the Master Builders' Company, Vice-President and General Manager; H. P. Orth, Secretary, and M. S. Orth, Treasurer. The products of this company will be marketed under the trade name of "Orthite."

Charles Bond Company, 617 Arch street, Philadelphia, have just issued an interesting and helpful booklet on Flexible Couplings, illustrating the Grundy Flexible Insulated Coupling and the Mather Flexible Coupling. A copy of this booklet "F" will be gladly mailed upon request.



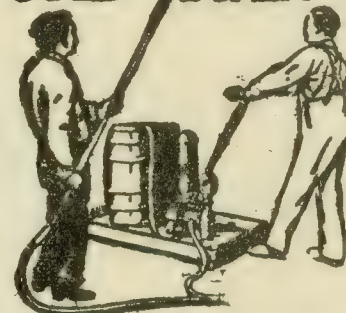
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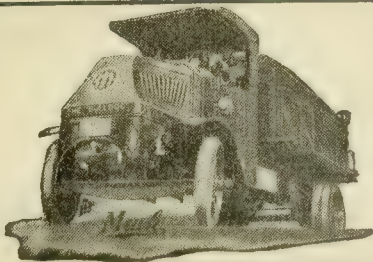
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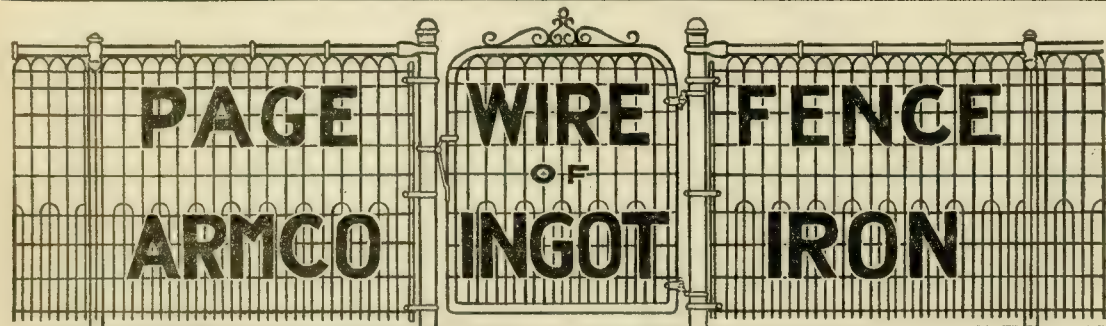
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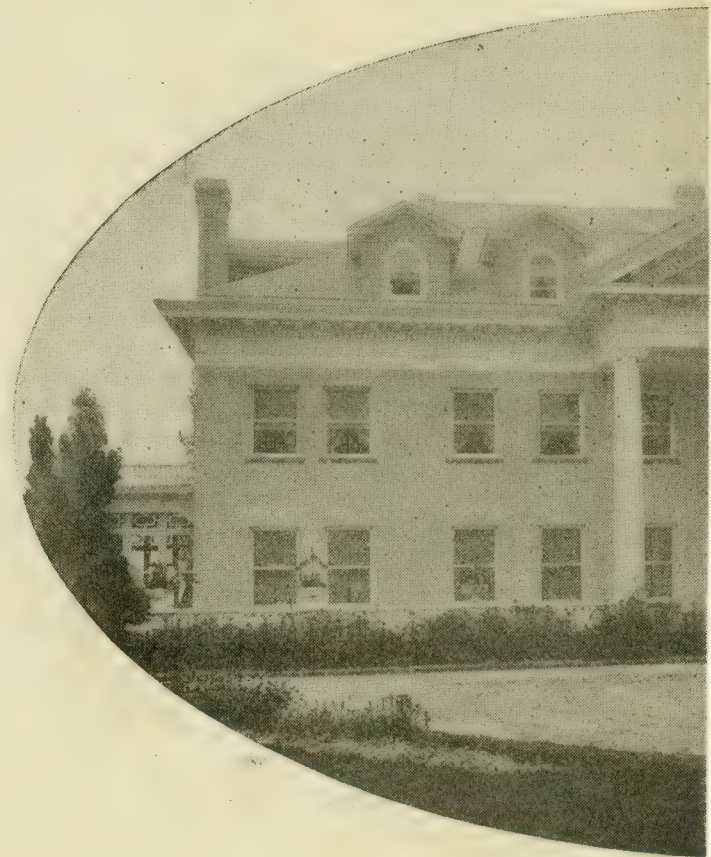
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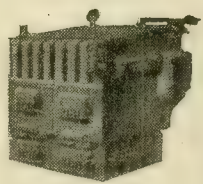
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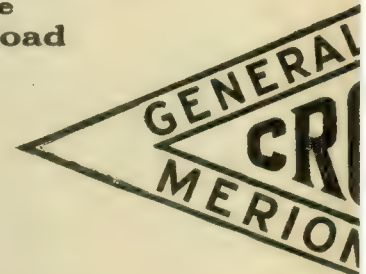
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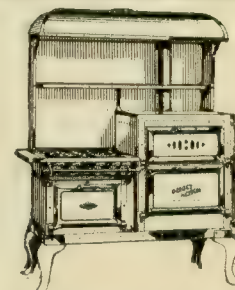
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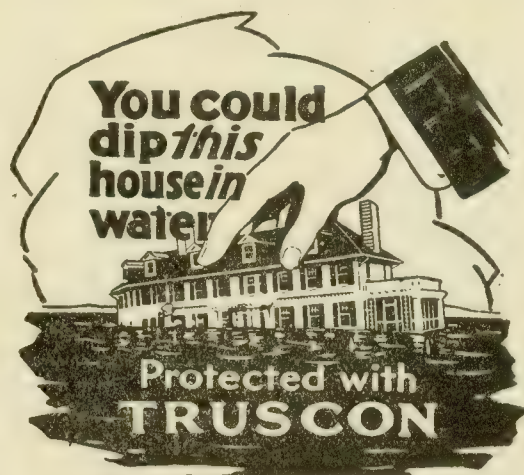


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## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Institute Building**, Nineteenth street, Race to Cherry, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Institute, Dr. R. B. Owens, secretary, 15 South Seventh street, Philadelphia. Brick, reinforced concrete and cut stone, 4 stories, loft and basement, 57x110 feet, slag roof, cement and pine floors, metal lath, elevators, waterproofing, bond, demolition, steam heat, tile and marble work, rolled steel skylights. Contract awarded to John Borden & Brothers, 637 North Nineteenth street, Philadelphia.

**Warehouse**, Front and Brown streets, Philadelphia. Architect, private plans. Owners, Terminal Warehouse Co., Delaware avenue and Front street. Reinforced concrete, 8 stories and basement, 102x148 feet, slag roof, concrete floors, elevators, steam heat, electric light, rolled steel sash, kalamein doors. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**Apartment Hotel (alts.)**, Northeast Corner Nineteenth and Walnut streets, Philadelphia. Architects, Hewitt & Ash, 1827 Arch street,

Philadelphia. Owners, The Wellington, on premises. Brick, carpentry, plastering, metal lath, tile and marble work, painting, glazing, cork tile floors, plumbing, oak floors. Contract awarded to Moore & Worth, Nineteenth and Cherry streets, Philadelphia, on cost plus basis.

**Stores (3), Apartments (8)**, Thirty-second and Ridge avenue, Philadelphia, \$30,000. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, A. Zagadkin, on premises. Brick, steel, 3 stories add., 9 feet 6 inches x 76 feet, 65x93 feet, slag roof, yellow pine and hardwood floors, demolition, hot water heat, electric light, tile and marble work, metal lath, hollow metal sash, fire doors, store fixtures, bond, metal bulks, metal ceilings. Contract awarded to Girard Cont. Co., 3220 Columbia avenue.

**Residence and Stable**, 2405 North Fifty-second street, Philadelphia, \$24,000. Architect, Wetherill Trout, 222 South Jessup street, Philadelphia. Owner, Fred J. Brill, 1930 North Twentieth street, Philadelphia. Hollow tile and stucco, 2 stories, 36x25 feet, 14x23

feet, slate roof, hardwood floors, hot water heat, electric work, tile work, stable, 1 story, 40x14 feet and 16x16 feet, cement floors. Contract awarded to William J. Ryder, 1718 Sansom street, Philadelphia.

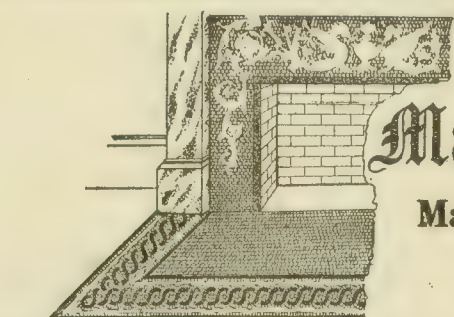
**Garage**, Cemetery Lane, North of Chester avenue. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 1 and 2 stories, 251x84 feet, slag roof, cement and plank floors, one pipe steam heat, electric light. Contract awarded to Woodland Const. Co., 5925 Woodland avenue.

**Factory (add.)**, 114-20 North Fifth street, Philadelphia, \$10,000. Architect, Carl P. Benger, 1512 Walnut street, Philadelphia. Owners, C. F. Rump & Sons, on premises. Iron on roof, 50x50 feet. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Building (alts.)**, 1614 Locust street, Philadelphia. Architect, private plans. Owners, Central Philadelphia Realty Co., 1614 Locust street, Philadelphia. Brick, 2 story add., slag roof, yellow pine floors, steam heat, electric lighting. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residences (6)**, Edmund and Pratt streets, Philadelphia, \$28,500. Architect, private plans. Owner, J. Floskonzski, 4847 Tacony street, Philadelphia. Brick, 2 stories, 14x38 feet, 10x13 feet, and (1) 16x50 feet, hot water heat, electric light. Contract awarded to John Kozmerszski, 4827 Tacony street, Philadelphia.

**Residences and Garages (2)**, South side Rhawn street, West of Loretto street, Philadelphia, \$17,000. Architect, private plans. Owner, Fred Kalwin, 7501 Dorcas street, Philadelphia. Brick, 2 stories, 16x26 feet, 12x21 feet, garages, 1 story, 11x18 feet, slag roof, hardwood, pine and cement floors, electric lighting. Contract awarded to Louis



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Seifing, 1548 Cottman street, Philadelphia.

**Store (alts.),** 9 South Ninth street, Philadelphia, \$6,000. Architect, private plans. Owner, Edwin S. Stuart, on premises. Brick party wall, 3 stories high. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Building (repairs),** Southeast Corner Bridge and Mulberry streets, \$12,000. Architect, private plans. Owners, Wolstenholme Felt Mfg. Co., on premises. General fire repairs, slag roof, carpentry, mill work. Contract awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

**Show Room and Storage Building,** 1016 Clinton street, \$16,000. Architect, private plans. Owner, John H. Whitwell, 214 South Twelfth street, Philadelphia. Brick and steel, 3 stories, 46x20 feet, slag roof, steam heating, electric lighting, cement and yellow pine floors. Contract awarded to William F. Newberry Co., 801 Otis Building, Philadelphia.

**Residences (2) (alts.),** North side Ontario street, East of Richmond street, Philadelphia, \$9,000 total. Owners, Berg Company, on premises. General alterations. Contract awarded to Stetson & Lukens, 205 Terminal Building.

**Residences (4),** South side Lyons avenue, East of Eighty-first street, \$4,200 each. Architect, private plans. Owner, Henry Schwartz, 5026 Kingsessing avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, electric lighting. Contract awarded to J. Edward Eruh, 1317 Widener Building, Philadelphia.

**Club House (alts.),** 1209 Walnut street, Philadelphia, \$8,000. Architect, private plans. Owners, Athletic Club of Philadelphia, on premises. Carpentry, mill work, painting, glazing, brick work, plastering. Contract awarded to William Steele & Sons Co., 219 North Broad street.

**Store and Residence (alts. and add.),** 2240 Ridge avenue, \$5,650. Architect, private plans. Owner, C. Bricker, on premises. Brick, 1 story, 4½x26 feet and 18x16 feet, general alterations. Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

**Garage (alts.),** 908-10-12 Callowhill street, Philadelphia. Architect, private plans. Owner, S. Snyder, 910 Callowhill street, Philadelphia. Steel work, carpentry work, cement work. Contract awarded to A. H. Spenard, 822 Wood street, Philadelphia.

**Residence,** 1714 Foulkrod street, Philadelphia, \$4,100. Architect, private plans. Owner, Bertha Clark, 1712 Foulkrod street, Philadelphia. Brick, 1 story, 22x22 feet, slag roof, pine floors, electric work. Contract awarded to George Byers, 1747 Foulkrod street, Philadelphia.

**Residences and Garages (20),** North side Linmore street, West of Sixty-fifth street, \$4,000 each. Architect, private plans. Owner, Anna Levin, care of builders. Brick, 2 stories, 20x31 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to

Levin Brothers, Sixty-fifth and Paschall avenue, Philadelphia.

**Residence (alts.),** 2115 Locust street, Philadelphia, \$2,500. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, J. K. Loughlin, Stephen Girard Building, Philadelphia. Steel and iron work, concrete work, slag roof, carpentry, mill work, hardware, plastering, tile work (heating, plumbing and electric reserved). Contract awarded to Knox-Landers Co., 1132 Vine street, Philadelphia.

**Store and Residence (alts.),** 221 South Seventeenth street, Philadelphia, \$5,000. Architect, private plans. Owners, Kershaw & Kroll, 5215 Chestnut street, Philadelphia. General alterations. Contract awarded to George Sherm & Son, 709 South Fifty-ninth street, Philadelphia.

**Greenhouse,** 4149 Monument Road, Philadelphia, \$4,000. Architect, private plans. Owner, Mrs. R. Kalker, on premises. Frame and glass, 20x33 feet. Contract awarded to W. C. Nester, 2019 North Sixty-third street, Philadelphia.

**Residence (alts.),** 1633 Spruce street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Dr. I. Bram, 1431 Spruce street, Philadelphia. General alterations. Contract awarded to Robert Brace, 619 North Thirty-fourth street, Philadelphia.

**Residences (2),** East side Oakley street, South of Levick street, \$4,800 each. Architect, private plans. Owners, Tunstall & Korman, 1006 Cottman street, Philadelphia. Brick, 2 stories, 16x48 feet, hardwood and pine floors, electric work. Contract awarded to H. J. Tunstall, 1006 Cottman street, Philadelphia.

**Store and Apartments (alts.),** 3412-14 Germantown avenue, \$4,500. Architect, private plans. Owner, Harry Zibman, 3412 Germantown avenue, Philadelphia. General alterations. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Laundry (alts.),** 1027 Vine street, Philadelphia, \$4,200. Architect, private plans. Owners, Philadelphia Toilet & Laundry Co., on premises. Brick, 4-story elevator shaft. Contract awarded to Henry Const. Co., 2954 Westmont street.

**Manufacturing Building (add.),** 4142 Germantown avenue, \$3,900. Architect, private plans. Owners, J. J. Felin & Co., on premises. Steel tank and tower, 30,000 gal. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

**Garage,** 4433 North Eighteenth street, Philadelphia (rear), \$3,500. Architect, H. Weiser,

4433 North Eighteenth street, Philadelphia. Brick, 1 story, 32x35 feet, 56x9 feet, slag roof, cement floors. Contract awarded to Paul Brosz, 2511 West Huntingdon street.

**Residence (add.),** 2721 North Fifth street, Philadelphia, \$4,000. Architect, private plans. Owner, Fred C. Schmidt & Son, Inc., on premises. Brick, 1 story, 4x36 feet, 18x18 feet, slag roof, electric work. Contract awarded to Stewart Brothers, 2526 North Orkney street, Philadelphia.

**Residence, Store (alts.) and Garage,** 5853 Florence avenue, \$5,000. Architect, private plans. Owner, S. Noscov, 925 North Twelfth street, Philadelphia. General alterations to store and residence, garage, 1 story, 13x16 feet. Contract awarded to M. Yellin, 712 North Franklin street, Philadelphia.

**Building (alts.),** 214-30 Lombard street, Philadelphia, \$3,800. Architect, William H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, on premises. General alterations. Contract awarded to Barclay White Co., 1713 Sansom street.

**Residences and Stores (2),** 1405-07 Courtland street, \$3,000. Architect, private plans. Owner, Isadore Drill, 4529 North Tenth street, Philadelphia. Brick, 1 story, 10x9 feet, slag roof, hardwood and pine floors. Contract awarded to J. Satler, 1236 North Marshall street, Philadelphia.

**Store and Storage (add.),** Northeast Corner Eighth and Wharton streets, \$3,000. Architect, private plans. Owner, Agostino D'Olio, 1214 South Eighth street, Philadelphia. Brick, third story add., 16x9 feet. Contract awarded to Roman Const. Co., Ninth and Dickinson street.

**Residence (add.),** 5600 Baltimore avenue, Philadelphia, \$3,000. Architect, private plans. Owner, Henry F. Forbes, on premises. Brick, 1 story, 13x17 feet, 2 stories, 13x11 feet, slag roof, electric work. Contract awarded to Charles R. Davis, 1500 Ellsworth street, Philadelphia.

**Garage,** 2048 Blair street, Philadelphia, \$2,500. Architect, private plans. Owner, Joseph May, on premises. Brick, 1 story, 24x50 feet, slag roof, cement floor, electric light. Contract awarded to George McKeag, 2411 Almond street, Philadelphia.

**Theatre (alts.),** 5949-51 Spruce street, Philadelphia, \$2,300. Owner, J. Hirsch, 913 West Girard avenue, Philadelphia. General alterations. Contract awarded to J. Trichonsky, 242 Morris street, Philadelphia.

**Factory and Garage,** 4719 Edgemont avenue, Philadelphia, \$12,000. Architect, private plans. Owner, James Little, 4600 Richmond street, Philadelphia. Brick, 2 stories, 26x7

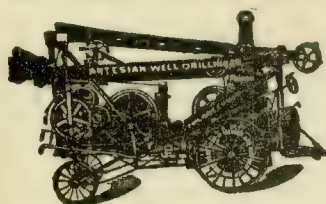
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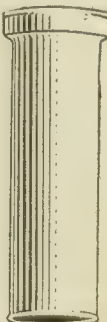
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feet, 34x39 feet, slag roof, maple and cement floors, steam heat, electric light. Contract awarded to Fred M. Ploucher, 3515 Comly street, Philadelphia.

**Garage**, 1752-54 North Eleventh street, Philadelphia, \$10,000. Architect, private plans. Owner, Mrs. J. H. McCann, 1104 Montgomery avenue, Philadelphia. Brick, 1 story, 41x100 feet, slag roof, cement floors, electric work. Contract awarded to A. J. Monaghan, 2615 North Sixth street, Philadelphia.

**Residence and Store (alts.)**, 1527-29 Arch street, Philadelphia, \$4,000. Architect, private plans. Owner, N. W. Ayer, 308 Chestnut street, Philadelphia. General alterations. Contract awarded to Harry R. Rust, 724 Ludlow street, Philadelphia.

**Store (add. and alts.)**, 5723 Germantown avenue, Philadelphia, \$6,000. Architect, private plans. Owner, Charles Hallahan, 921 Market street, Philadelphia. Brick, 1 story, irregular size, general alterations. Contract awarded to William E. Hale, 1516 Summer street, Philadelphia.

**Store (alts.)**, 1222-24 Walnut street, Philadelphia, \$6,000. Architect, private plans. Owners, Stecker, Inc., on premises. General alterations, store fixtures. Contract awarded to Basch & Co., Ruan and Tackawanna streets, Philadelphia.

**Garage and Store**, 6131 Rising Sun avenue, Philadelphia, \$7,500. Architect, private plans. Owner, Wm. Silzer, on premises. Brick, 1 story, 120x18 feet, 21x8 feet. Store 1 story, 20x30 feet, cement and pine floors, slag roof, electric lighting. Contract awarded to United Home Builders, 6600 Rising Sun avenue.

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**Residence**, northeast corner of Seventy-eighth and Lyons avenue, Philadelphia, \$4,000. Architect, private plans. Owner, George Blung, Seventy-ninth and Lyons avenue, Philadelphia. Brick, 2 stories, 16x40 feet, hot water heat, electric light, hardwood and pine floors. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

**Apartments (alts.)**, 4509 Springfield avenue, \$2,000. Architect, private plans. Owner, Dr. Louis Loutenbach, 5411 Angora Terrace, Philadelphia. General alterations. Contract awarded to J. G. T. Miller, 2325 West Allegheny avenue, Philadelphia.

**Garage**, 828 East Schiller street, Philadelphia, \$2,000. Owner, A. J. Hemberger, 662 E. Westmoreland street, Philadelphia. Brick, 1 story, 15x55 feet, slag roof, cement floors. Contract awarded to J. Clarkin, 850 East Ontario street, Philadelphia.

**Residence and Store (add. and alts.)**, 611 East Haines street, \$2,000. Owner, Emily A. Rittenhouse, Williamsport, Pa. Brick, 1-story

addition, 20x12 feet, general alterations. Contract awarded to David Starke, Woodland avenue, west of Chew street.

**Residence**, west side of Wissahickon avenue, south of Westview avenue, \$30,000. Architect, Benj. F. Betts, 22 South Eighteenth street, Philadelphia. Owner, Bertha Richardson, 6218 Greene street, Germantown, Philadelphia. Stone, 3 stories, 57½x41½ feet, 2 stories, 20x20 feet, and 1 story, 26x24 feet, slate roof, hardwood and pine floors, tile work; hot water heating, electric lighting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Convent (alts. and add.)**, Fifty-sixth and Cedar avenue, Philadelphia. Architects, Henry P. Dagit & Sons Co., 34 South Seventeenth street, Philadelphia. Owners, Church of the Transfiguration, Fifty-sixth and Cedar avenue. Stone, 3 stories, 22x16 feet, heating extension, electric light, bond, slag roof, oak and pine floors, galvanized iron skylights. Contract awarded to John McShain, 1610 North street, Philadelphia.

**PENNSYLVANIA**

**Construction News**

**High School**, Shamokin, Pa., \$800,000. Architect, Wm. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Coal Township School District, Shamokin, Pa. Brick, steel concrete, stone, 3 stories, 350x220 feet, built-up roof, composition, mastic and wood floors, hollow tile, dumb waiters, quarry tile, waterproofing and dampproofing, lockers, flag pole (heating, plumbing and lighting reserved), tile and marble work, hollow metal sash, fire doors, terracing, ornamental plaster, ornamental iron two gymnasiums and auditorium. Preliminary plans in progress.

**Theatre and Hotel**, Tamaqua, Pa. Architect, Wm. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, P. J. Higgins & Son, Tamaqua, Pa. Brick, steel, concrete, cut stone, 5 stories and basement, 54x150 feet, theatre capacity 1,800, built-up roof, compo-

sition hardwood and tile floors, hot air heat, vapor heat, electric light, tile and marble work, hollow metal sash and skylights, fire doors, roof ventilators, elevators, flag pole, marquee. Plans in progress. Will be ready for bids in one month.

**Theatre, Dance Hall, Auditorium and Stores**, Pottsville, Pa. Architect, Wm. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Chamberlain Amusement Co., Pottsville, Pa. Brick, cut stone, steel, concrete, 3 stories, 232x182 feet. Theatre capacity 3,000, Auditorium capacity 1,100, slate and built-up roof, hardwood and composition floors, hot air and vapor heating, electric lighting, tile and marble work, metal lath, hollow metal sash and skylights, fire doors, metal bulks, floor hardener, ornamental plaster, elevators, roof



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ventilators, booth, organ, flag pole, marquee. Preliminary plans in progress.

**Theatre**, Tamaqua, Pa. Architect, Wm. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, Chamberlain Amusement Co., Shamokin, Pa. Brick, stone, concrete, steel, 2 stories, 96x155 feet, capacity 2,000, built-up roof, cement floors, hot air and vapor heat, electric light, tile and marble work, roof ventilators, fire doors, flag pole, marquee. Preliminary plans in progress.

**Church**, Ardmore, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owners, First Baptist Church, Ardmore, Pa. Stone, cut east stone, brick, 1 story, 100x42 feet, controlled heat, electric light, tile and marble work, bond, slate roof. Revised plans in progress.

**School**, Broad and Swatara streets, Tamaqua, Pa. Architect, Benj. Rush Stevens, 1737 Filbert street, Philadelphia. Owners, Tamaqua Borough School District, G. W. Walter, Tamaqua, Pa. Brick, 2 stories. Plans about completed. Will be ready for bids in one week.

**Residence and Garage (alts. and add.)**, Ardmore, Pa. Architects DeArmond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, S. Y. Warner, Ardmore, Pa. Stone, plaster, half timber, 2½ stories, irregular size, slate roof, oak and yellow pine floors, vapor heat, electric light, tile and marble work. Plans in progress. Architects will be ready for sub-bids in two weeks.

**Residence (alts.)**, Newtown, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, George Brown, Newtown, Pa. Stone, general alterations, slate roof, hardwood floors, hot water heat, electric light, tile and marble. Plans in progress.

**Residence and Garage**, Haverford, Pa. Architects, Kennedy & Johnson, 1324 Walnut street, Philadelphia. Owner, C. A. Baxter, 1524 Chestnut street, Philadelphia. Brick and stone, 2½ stories, 40x77 feet, Preliminary plans in progress.

**Residences (8) (alts.)**, Ardmore, Pa. Architect, S. Kaplan, 10 South Eighteenth street, Philadelphia. Owner's name withheld. General remodeling. Preliminary plans in progress.

**Telephone Building (alts. and add.)**, DeKalb and Penn streets, Norristown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories, 120x30 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, bond. Architect taking bids.

**School**, Easton, Pa. Architect, A. D. Chidsey, Jr., 341½ Northampton street, Easton, Pa. Owners, College Hill School, Easton, Pa. Associate architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. All bids rejected.

**Bridge No. 295**, Kennett Square, Pa., Chester County. Engineer, H. K. Ellis, Phoenixville, Pa. Owners, County Commissioners, Court House, West Chester, Pa. Reinforced concrete. Owners taking bids, due August 13th.

**Publishing Building**, 57-59 East Penn street, Norristown, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Lessee, Northern Evening Register, Norristown, Pa. Owner, Laura B. Jones, Norristown, Pa. Brick, 3 stories and basement, 22x100 feet (heating, plumbing and lighting reserved). Architect taking bids, due August 11th.

**Stores and Apartments (5)**, northwest corner of West Chester Pike and Linn Boulevard, Highland Park, Delaware County, Pa. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Gross, Silverberg &

Rosenwald, 5244 Market street, Philadelphia. Brick, 2 stories, 15x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal ceilings. Owners taking bids, due as soon as possible.

**American Legion Building**, Kennett Square, Pa. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, W. W. Fahey Post, 491, care of architect. Stone and steel, 2 stories, 80x100 feet, composition roof, hardwood floors, metal lath, steam heat, electric light, marble work, ornamental terra cotta. Architect taking bids, due August 10th.

**Residence**, Cynwyd, Pa. Architect, private plans. Owner, John M. Gessler, Thirty-ninth and Baltimore avenue, Philadelphia. Hollow tile, stucco, stone, 2 stories, 20x40 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, plastering. Owner taking bids.

**Residence (alts. and add.)**, 105 City avenue, Bala, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Walter S. Detwiler, on premises. Masonry work, millwork, plastering, painting, glazing, tile and marble work. Architects taking bids, due as soon as possible.

## Pennsylvania Contracts Awarded

**Bank (alts. and add.)**, Harrisburg, Pa. Architect, W. L. Stoddart, 9 East Fortieth street, New York City. Owners, Commonwealth Trust Co., W. Jennings, President, Harrisburg, Pa. Brick, hollow tile, 1-story addition, 52x210 feet, general interior and exterior alterations, demolition, tile, marble and terrazzo work, vault, bronze work. Contract awarded to S. W. Shoemaker & Son, Harrisburg, Pa.

**Retaining Wall Extension**, Bridgeport, Pa. Architect, private plans. Owners, Philadelphia & Reading R. R., Twelfth and Market streets, Philadelphia. Extension of retaining wall of north side of Front street. Contract awarded to C. P. Bowers, Tulip and Somerset streets, Philadelphia.

**Club House**, Swarthmore, Pa. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owners, Women's Club, Swarthmore, Pa. Stone, 1 story and basement, 14x20 feet, removing trusses, raising ceilings, heating and lighting extensions, hardwood floors. Contract awarded to James E. Flounders, Media, Pa.

## New Jersey Construction News

**Residence**, Trenton, N. J., \$80,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Lewis Lawton, 432 Hamilton street, Trenton, N. J. Brick, stucco, 2½ stories, tile roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

**Home (add.)**, Spring street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Home for Indigent Widows and Single Women, care of architect. Brick, 4 stories, 50x100 feet, slate roof, hardwood floors, electric light. Plans in progress.

**Y. W. C. A. Building**, Hanover street, Trenton, N. J. Architect, Wm. Thompson, 342 Madison avenue, New York City. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Y. W. C. A., Mrs. Edw. Dunham, 365 West State street, Trenton, N. J. Steel, concrete, 4 stories, 54x155 feet and 72x55 feet, slag roof, hardwood and concrete floors, vapor heat, electric light, metal lath, tile and marble work, elevator, hollow tile, roof ventilators, rolled steel sash,

skylights, kalamein doors, water and damp-proofing, iron stairs, ornamental iron work. Plans in progress. Will be ready for bids in three weeks.

**Ice Storage Building**, Trenton, N. J. Architect, Harry G. Aitken, American Mechanics' Bank Building, Trenton, N. J. Owner's name withheld. Brick, steel, 1 story, 75x100 feet, slag roof, concrete floors, electric light, rolled steel sash. Plans in progress.

**High School**, North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board of Wildwood, care of Thos. B. Akarman, North Wildwood, N. J. Reinforced concrete, brick, 3 stories, 170x40 feet, auditorium 80x50 feet, slag roof, pine, cement and terrazzo floors (electric light, steam heat, plumbing and ventilators separate contracts). All bids rejected. Ready for revised bids in a few days.

**School**, Northfield, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Northfield School Board, C. Kreritz, Northfield, N. J. Brick, 1 story, 100x120 feet, slag roof, pine floors, hollow tile, safety treads, water and damp-proofing, electric light, metal lath, tile work, rolled steel skylights. Plans in progress.

**Hotel**, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, care of architect. Fireproof, 6 stories, 120 rooms, 50x90 feet, composition roof, pine floors, hot water heat, electric light, metal lath, tile work. Revised plans in progress.

**Apartment**, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mr. Brilliant, States avenue, Atlantic City, N. J. Fireproof, 6 stories, 40x112 feet, slag roof, hardwood floors, hollow tile, electric light, metal lath, tile work. Will be ready for revised bids next week.

**Boiler House and Laundry**, Atlantic City, N. J. Associated architects, H. A. Stout, H. V. Mathis and J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Hospital, Mr. J. Moore, Atlantic City, N. J. Brick, concrete, steel, 2 stories, 50x55 feet, slag roof, concrete floors, electric light, rolled steel sash, fire doors, water and damp-proofing. Architects will be ready for bids in one week.

**School (alts.)**, Indiana avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board, H. H. Young, Secretary, Atlantic City, N. J. Heating and ventilating. Owners ready for bids.

**Stanley Hotel (alts. and add.)**, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owners, Stanley Hotel Co., Inc., care of architect. Brick, hollow tile, stucco, 1 and 5 stories, 32x20 feet, 40x90 feet, slag roof, pine floors, hollow tile, electric light, plumbing. Architect taking sub-bids and general bids, due as soon as possible.

**Residence and Garage**, Vendome avenue and Ventnor Park, Margate City, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Frank S. Clowney, 22 South Pennsylvania avenue, Atlantic City, N. J. Frame and shingle, 2½ stories, 25x41 feet, slate roof, hardwood and cement floors, vapor heat, electric light, tile work. Architect taking bids, due as soon as possible.

**Two Family Apartment and Garages (2)**, Drexel avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, care of architect. Brick, 2 stories, 56x23 feet, garages 1 story, 20x20 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Max Dolinky, New Jersey



and Oriental avenues, Atlantic City, N. J., will build.

**Store House**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, H. H. Young Secretary, Atlantic City, N. J. Brick, 2 stories, 45x97 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash and skylights, fire doors, iron stairs. Lowest bid submitted by M. B. Markland, Guarantee Trust Building, Atlantic City, N. J.

**Low Level Sanitary Sewerage System and Sewerage Pumping Station**, Borough of Haddonfield, Camden County, N. J. Architects, Remington & Vosbury, 601 Market street, Camden, N. J. Owners, Board of Commissioners, Borough of Haddonfield, County of Camden, Allen Clymer, Borough Clerk, Haddonfield, N. J. Construction of approximately 24,000 lin. feet of 5", 8", 10" and 12" terra cotta pipe sewers, 111 manholes and 1 electrically operated sewage pumping station. Bond. Deposit \$15, refund \$10. Owners taking bids, due August 16th at 8 P. M.

**Paving**, Section A, Haddonfield, N. J. Owners, Borough of Haddonfield, County of Camden, Allen Clymer, Borough Clerk, Borough Hall, Haddonfield, N. J. Paving. Contract awarded to Fish-Rutherford Co., Real Estate Trust Building, Philadelphia.

## Delaware Contracts Awarded

**Apartments and Stores (add.)**, Wilmington, Del. Architect, John H. McKibbin, Industrial Trust Building, Wilmington. Owner, J. M. Frere, 1600 Delaware avenue, Wilmington, Del. Brick, 2 stories and basement, 35x48 feet, steel work, plate glass, composition roof. Owner will build.

**Residences (2)**, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, Culver Thatcher, Industrial Trust Building, Wilmington. Brick, 2 stories and basement, 22x30 feet, composition roof, hot water heating. Contract awarded to Peter W. Newell & Sons, Wilmington, Del.

**Store (add.)**, Northwest Corner Sixth and Lincoln streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, L. Slowsky, on premises. Steel work, plate glass. Contract awarded to Cantera & Ventresca, Wilmington, Del.

**Community Hall and Sunday School**, Dover, Del. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, People's Christian Church, care of Rev. R. C. Helfenstein, Dover. Stone, cut stone, brick, stucco and steel, 3 stories, 70x94 feet, asphalt slag, built up roof, pine floors, plastering, electric light, metal lath, marble work, dampproofing, ornamental iron work. Contract awarded to J. A. Hirons, Dover, Del.

## Miscellaneous Construction News

**Institute of Art (add.)**, Detroit, Michigan. Architects, Paul P. Cret and Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, City of Detroit, Mich. Stone, brick and steel. Plans completed. Owners will be read for bids in two weeks.

**Grade School**, Elkton, Md. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Cecil County School Board, care of H. Caldwell, Secretary, Elkton, Md. Brick, 2 stories, 40x80 feet, slag roof, pine and composition floors (heating, electric work and plumbing reserved). Owner ready for bids.

**Schools (3)**, Cecil County, Md. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Cecil County School Board, H. Caldwell, Secretary, Elkton, Md. Brick, 1 story, 3 rooms. Owners ready for bids.

**Garage and Chauffeur's Quarters**, Upper Saranac Lake, N. Y. Architect, Paul Livingstone Boyd, 6943 Limekiln Pike, Philadelphia. Owner, John H. Kirby, Upper Saranac Lake, N. Y. Frame, shingle sides and roof, 2 stories, 19x35 feet, shingle roof, wood and cement floors, electric lighting. Contract awarded to Arch. K. Schoek, 45 West Gravers Lane, Chestnut Hill, Philadelphia.

## A NEW HOTEL IN YOUR TOWN

### III. Selecting the Site

*The third in a series of articles that show step by step, the phases through which the new hotel project in a medium size city should pass before it becomes a successful reality.*

BY W. L. STODDART

Architect

Reprinted Through the Courtesy of  
"Hotel Management"

LAST month we discussed the factors that should be considered in determining the number of bedrooms that can be incorporated in a new hotel in order to best meet the requirements of the particular city for which such a building is being considered. When once this question has been settled the next logical step toward inaugurating the new hotel is the selection of its site.

If it were possible to draw comparisons between the relative importance of the various phases that enter into the creation of a new hotel building, I would put the choosing of the proper site at the head of the list. It is possible, and frequently happens, that an undersized hotel or a hotel that has been extravagantly built or incorrectly planned, will show a profit as long as it has been centrally located in the town. Such hotels will not, of course, return the interest earnings on the investment they should but, nevertheless, many examples of both of these cases have come to my attention and I have even known of hotels that were too large for the communities in which they are situated that have "gotten by." On the other hand, more hotel failures can, in my opinion, be attributed to locations unadapted both to hotel and business requirements than to any other one cause.

One of the first points to be considered in selecting the new hotel's location is to choose one that is of the correct size and shape to allow for proper planning and that is also adaptable for future additions. In this connection, please recall the axiom mentioned in my last article—namely, that it is best to be conservative at the start as to the number of rooms to build. At the same time provision should be made for a future wing of typical

floor rooms to meet the volume of business as the growth of the city requires. Remember, too, in this connection that in most cities the building laws do not permit the erection of structures of more than a certain number of stories—12 in many cases. As a general proposition, also bear in mind the fact that it is more economical to build upward than outward. It has frequently happened, however, that hotels have been built as high as they could be under existing laws and have still needed room for expansion, but due to the fact that foresight had not been used when the property was originally purchased and the hotel planned, unnecessary expenses—oftentimes not warranted by the returns on the investment—have been forced on the lessees and owners because of their lack of judgment or experience.

This should not be taken to mean that it is necessary to purchase more ground space than the hotel will need at the start, but it does mean that sufficient ground should be purchased and the building then so planned that future extension may be made at the minimum of expense when required—or the promoters should be careful to see to it that the property adjoining the hotel's site will be available at a reasonable figure later on.

### Who To Consult in Choosing the Site

There are in general four people whose judgment is particularly valuable when it comes to selecting the site for the new hotel. The first of these is the prospective lessee. If he is an experienced hotel man (as he, of course, should be) he will be in a better position than any one else to gauge the possibilities, from a business-getting standpoint, of the various sites under consideration. The architect with experience in the building of hotels should be the next man to be consulted in this connection. With his highly developed judgment, both from an artistic and practical point of view, he should be in a position to advise as to which of the various sites will prove the most profitable from a business point of view and the most practical as to planning and design.

One or more of the city's leading retail merchants should also be consulted. After all, a hotel offers a commodity for sale just as does a retail store. In most cases the men in this line are best posted on the trend of the city's business and future growth and know the best location for attracting the largest possible patronage. Another important group of men whose judgment is well worth securing is that of the officials of the chamber of commerce and other civic or business associations of a like character. If they are "on their toes," it is probable that they have kept in close touch with the trend and character of the



city's development and can furnish valuable pointers as to where the hotels should be located so as to take the utmost advantage of future growth and harmonize with other plans that they have fostered for the development of the municipality.

A word of warning as to one, unfortunately, too common mistake to be guarded against in selecting the site of the new hotel. This is the question of individual or selfish interests as opposed to the general interest of the entire community. It goes without saying that the community's best interests are the only ones that should be considered in the carrying out of a hotel project. New hotels increase surrounding property values more quickly than any other type of building, and when it comes to selecting the site, the board of directors will probably have a number of proposals suggested to them which will be made to look particularly attractive because of the ulterior purposes in the minds of their promoters—but the judgment of the experienced hotel operator and the business man, who have only the city's best interests in mind, should be given first consideration and should outweigh all other arguments.

The above are the more general factors that should be taken into consideration in choosing the site for the new hotel. The following points are more specific, but all are of equal importance insofar as the returns to the management for its efforts and to the stockholders for their investment are concerned.

I wish first to make it clear that this discussion is confined to hotels which will be primarily commercial or civic in character, although the points apply in a general way to all hotels. They are, however, particularly applicable to commercial establishments, and because of the fact that the commercial or civic hotel is the backbone of the hotel industry in this country, and in order to be more specific, I am limiting this discussion to hotels of this kind.

#### *The Specific Points to Consider*

In the first place, the new hotel must be *accessible*—accessible with regard to railroad stations, street car lines, the main automobile highway the town's business district and its residential section. It should be built at or near the center of converging business and residential thoroughfares. These factors are all of the utmost importance, and while it is improbable that every one of them can be fulfilled in an one city, when taken together they constitute the ideal that should be kept in mind when the various sites are being considered.

If the hotel's site is properly selected with reference to the above factors, the question of *revenue from sub-rentals*

will automatically take care of itself. In a previous article of this series I stated an axiom to the effect that the income from sub-rentals should at least equal the interest on 25% of the cost of the building. Another way of stating this axiom in approximate terms is to figure that the income from sub-rentals should equal the taxes and interest charges on the property—or, if the property is leased, the annual rental charge. If this procedure is followed it will be seen that the cost of the site selected is of secondary importance. The *best* site should be selected regardless of cost and the hotel's income from sub-rentals automatically adjusted to carry the cost of the property.

I said above that a site should be selected which would adequately provide for later expansion. In any case the size of the property should be ample to take care of all ground floor and main public room requirements and allow for guest room expansion over the service or kitchen wing of the hotel. This does not mean an unbalanced investment, as the ground floor rentals and economy of future construction more than offset the temporary additional capital investment. In this connection let me add that in entering into a lease with an operator, it is possible to make an arrangement whereby the latter will agree to pay an increased net return on the investment after the additional guest rooms have been built. This question of lease will be discussed more fully in a later article.

I also stated that when a new hotel is opened to the public the value of the surrounding property increases very rapidly. As a matter of fact, this question of increased property values should be regarded from both viewpoints—namely, from that of the new hotel and from that of the other adjacent property. I mean by this that the neighborhood in which the new hotel is built should be one where property values are on the increase, and if the factors mentioned above are followed, this will automatically be the case.

#### *The Best Location*

The best location for the new hotel is one that is conveniently close to, or even directly on the line of growth of the city's retail business and at the same time on the main street leading out toward the residential center. In my opinion, it is usually better to build the new hotel on a site that is slightly beyond the present retail center—in the direction of the best residential district—rather than directly in it. For in every case the retail center follows the trend in residential building, and it is, of course, better to let the business district catch up to the new hotel than to leave it behind.

In connection with the above discussion, the new hotel, which is now being

planned for Tacoma, Wash., provides an interesting and complete example, in that the selection of its site illustrates all of the above mentioned points. In all, eighteen different sites were submitted to the hotel's board of trustees and in their report to the stockholders all of these sites were illustrated and the stockholders asked to vote for their first choice. The following are some comments which will illustrate the advantages and disadvantages of the three best sites submitted:

*Site No. 1—9th Street—between Broadway and Commerce Street.* This, in my opinion, was the best of the sites considered and I am glad to say that it was the one finally selected. Tacoma's retail district converges at the intersection of South 9th Street with St. Helen's Ave. and Broadway, and the best residential section is reached via Broadway and St. Helen's Ave. This site, therefore, fulfills practically all of the specifications mentioned above. Both Broadway and St. Helen's Avenue are main thoroughfares, there is plenty of parking space for automobiles on the Broadway and Commerce Street frontages and few possibilities for congested traffic.

Moreover, the size of the property—100 feet on South 9th Street, and 200 on Broadway and Commerce Street—provides ample frontage for the main public rooms. At the same time the entire ground floor space below these main rooms is given over to stores—a total of over 24 rentable spaces. A final point in its favor is the fact that the north or inside property lines provides for a later addition of 125 rooms, should the volume of business warrant.

*Site No. 2—Corner of Pacific Avenue and South 10th Street.* This is also a desirable location for the reason that it is well centered in the city's lower business section and because it gives ample space for the erection of a hotel of the size that Tacoma needs. The plot is also well proportioned for the designing of a modern and artistic hotel building, and there is sufficient space for a future wing at the rear of the property. The ground floor rentals would also be high in this location. But because of the value of the ground floor space on Pacific Avenue, it would be necessary to place the main lobby and other public rooms at a distance of about 11 feet above the sidewalk level, and without the opportunity of having the main entrance lead directly into them. Furthermore, this site is situated too far distant from the best residential section, and the trend of business would be away from it rather than toward it.

*Site No. 3—Corner of Broadway and South 9th Street.* While this site has the same advantages of location that were set forth regarding Site No. 1, the shape and size of the property would not per-



mit of an adequate hotel building for Tacoma's needs. The lobby and lounge would be cramped unless they were placed along the Broadway side of the building toward South 10th Street, and in this event it would be necessary to locate the service end of the structure on the South 9th Street corner—the most desirable and conspicuous part of the property. In order to secure the necessary number of bedrooms on this site it would be necessary to build at least 12 stories and with a hotel of this height, the columns in the lower public rooms would, in my opinion, be objectionable because of their size. (This statement is made on the assumption that reinforced concrete would be used. If a structural steel frame had been decided on, the cost to the new hotel would have been materially increased.)

\* \* \* \* \*

The above examples illustrate the many intricate and varied factors that enter into the problem of selecting the best location for the new hotel. This is no easy problem to decide, nor is it one that can be settled off-hand. But if the board of directors, in consultation with the prospective lessee, the experienced hotel architect and the civic bodies, will carefully weigh the above pros and cons, and make an unbiased decision in the light of all the "evidence," they can be assured of building their hotel where it will enjoy maximum patronage and bring a remunerative return on the entire investment both to the lessee and the stockholders.

The next installment in this series will take up the cost and financing considerations.

#### FINDS ALUMINUM PAINT MAKES RADIATORS LESS EFFICIENT

The aluminum or bronze paint generally applied to radiators greatly reduces their effectiveness and makes it necessary to have a larger surface for the same heating effect, according to experiments performed by Dr. W. W. Coblentz, of the Bureau of Standards. Dr. Coblentz finds that the heat radiated from an aluminum painted radiator surface is less than a third of that emitted by a radiator of the same size painted with a non-metallic paint, enameled, or simply allowed to rust.

On the other hand he finds that aluminum paint is a very effective means of reducing the amount of heat transmitted through a thin material. Applied to the under side of a tent or awning it reduces by three-fourths the amount of heat from the sun which gets through the cloth, while it used on the cover of an automobile or ice wagon it cuts in half the heat let through and makes the temperature inside the vehicle more nearly

that found in natural shade, thereby making it much more comfortable.

#### DOVE DAMPERS FOR THE FIREPLACE

A properly designed throat damper affords the means of regulating the fire. The damper consists of a cast iron frame with a lid hinged so that the width of the throat opening may be varied according to size of fire. There are a number of patterns on the market, some of which are designed to support the masonry over the fireplace opening.

Regulating the opening according to the kind of fire prevents waste of heat up the chimney. Closing the damper in summer keeps flies, mosquitoes and other insects from entering the house by way of the chimney. In houses heated by furnaces or other modern systems, fireplaces without throat damper interfere with even heating, particularly in very cold weather.

An open fire must be supplied with air and the larger the fire the greater quantity required; an extra wide fireplace may pull air from distant parts of the house. This air heated by the expenditure of fuel in the furnace is carried up the chimney and wasted. With a throat damper open only slightly a slow fire can be kept going without smoking the room, reducing materially the waste of heat.

The throat damper should be as wide as the fireplace so the side walls should not be drawn in until the throat is passed. The placing of the damper varies with the type, but generally the bottom of the frame is built into the brickwork at the level of the top of the fireplace opening forming the throat and supporting the masonry above it.

The use of dome dampers became necessary on account of smoky fireplaces, and before the introduction of these dampers, the individual workman used his own judgment as to the opening of the chimney throat, and likewise its size when entering the chimney proper, and resulted in the direct cause as to why a fireplace would dawn in one chimney and not in another.

A perfect dome damper regulates the opening of the throat at the top of the fireplace, the height of the throat the slant given the throat and the size of the opening of the throat into the chimney leaves a smooth lining to the throat, is the shape of and covers the full size of the fireplace, insuring a perfect draft.

It should be simple in construction, free from complicated mechanism and of sufficient weight to bear handling and transportation. The size of the base opening of these dampers should be in accordance with regular fireplace openings, and to obtain the best results the

damper should have a base opening as near the size of the fireplace as possible.

Every fireplace no matter how large or small the house, should have a damper. A fireplace dome damper is not a luxury but an absolute necessity. The first cost is the only cost. But in reality there is no cost, for in one season of cold weather a dome damper pays for itself in fuel saved.

This saving is not alone in the fireplace, but the major saving is in the furnace or heater. Heat which stays in your rooms instead of being sucked out through the fireplace flue faster than the firebox can be filled with fresh fuel.

Another point to be considered is that no arch bar is needed, that the chimney throat can't go wrong and the time required to lay up a throat is entirely saved. It is reasonable to believe in using a dome damper there is an actual saving which should not be overlooked by a builder.

Some dome dampers now in use have attachments whereby the door can be opened from the face of the fireplace. One of the most popular has a square rod running through the tile or brick facing encased in a brass tube so the operation is free and easy. The rod being operated by a brass handle and the rod in turn operates a cam which it attached to the door.

It requires but a three-quarters turn of handle to open or close the door, and handle will always indicate position of door. It is so constructed that the door automatically locks itself at any desired opening while operating the handle.

The mechanism is exposed inside the dome so as to be able to adjust the damper rod to proper position after face of fireplace is completed. The door can be removed or replaced at will without removing any screws or works, permitting free access to the flue while building or when cleaning. This attachment is simplicity itself, and a screw driver is the only tool necessary to attach it to the body of damper.

The only road to advancement is to do your work so well that you are always ahead of the demands of your position. Our employers do not decide whether we shall stay where we are or go on and up; we decide that matter ourselves. Success or failure is not chosen for us: we choose them for ourselves.—H. W. Mabie.

Repetition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.



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Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

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## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill Sts., Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H. Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co., 24th and Callowhill, Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co.....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....1310 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....Franklin Trust Bldg., Phila.  
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## DRAWING MATERIALS.

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McCarrick Bros. ....3138 N. 24th St., Phila.

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Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T. & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

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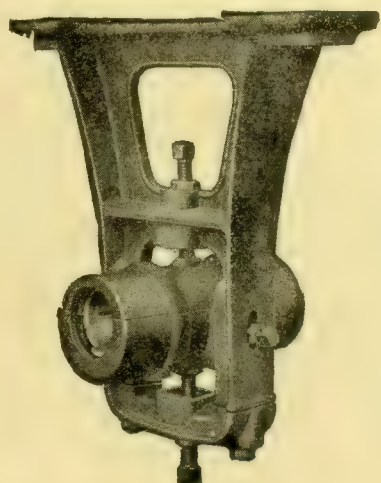
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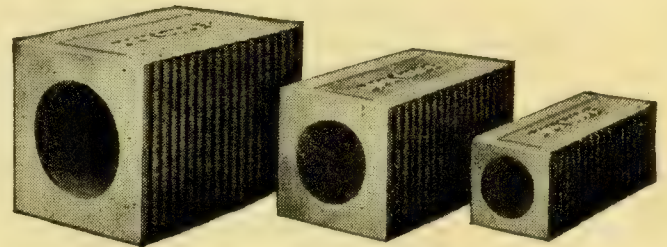
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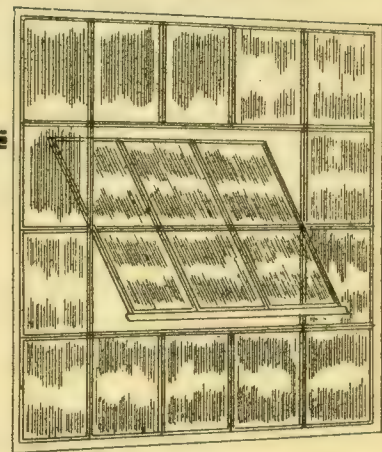
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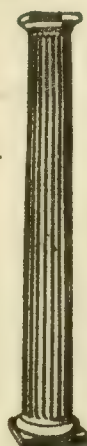
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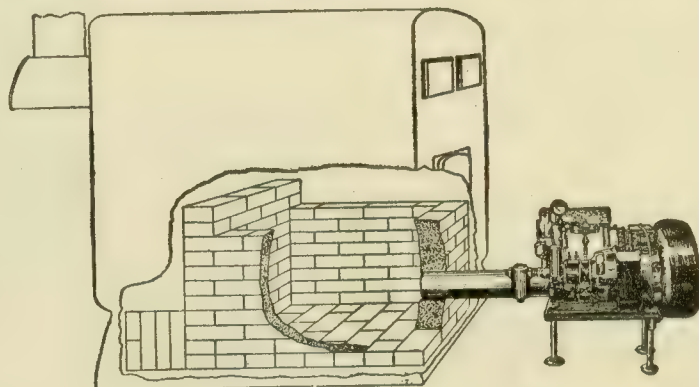
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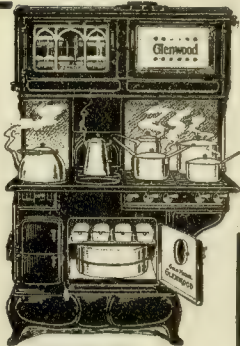


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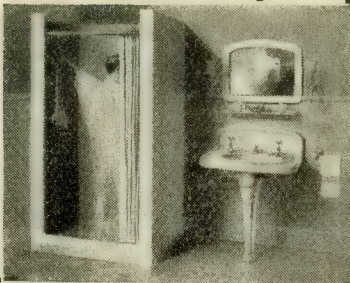
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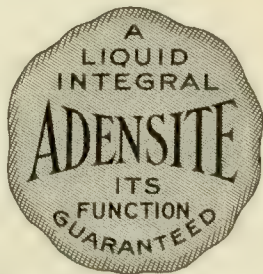
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 33

PHILADELPHIA  
August 15, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

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## As The Editor Sees It



ENOUGH "WHITE-COLLAR" MEN  
Diggers, Shovelers, Lifters, Pushers  
and Grunters Needed

BY J. W. COWPER,\*

President, Associated General Contractors  
of America

TO either the individual citizen who works with his hands or the individual who employs labor, the question of immigration at first glance appears extremely simple. The self-interest of one dictates that no more workmen shall enter the country to increase the competition for employment and reduce the scale of wages, while the self-interest of the other demands that additional labor shall be brought into the country to increase competition for employment and lower the cost of production. Between these two views is a distinct conflict of interest that in earlier years might have been settled by the test of might, but which today must be settled with due regard for the welfare of the country as a whole. The rank and file of citizens commonly designated as the public, has acquired an impertinent habit of demanding a voice in matters which affect its interest and thus the settlement of the immigration question becomes a little more complex.

The question is far from simple, and those who have given it the deepest study

President, John W. Cowper Company,  
Buffalo, N. Y.

find it even less simple than those who have spoken with little knowledge. Practically every action that has been demanded by either labor or employer is involved with complications, either in this country or abroad, which have placed a difficult problem before the country's legislators. It appears highly improbable that these gentlemen will be stampeded into taking precipitous action one way or the other, and it is now up to each group of proponents or opponents of this or that immigration policy to show the reason for their respective stand.

### Most Benefit to Greatest Number

Few employers are so shortsighted as to favor a return of unrestricted immigration which would open the gates to a flood of undesirable aliens, yet it is doubtful if a decision based solely upon the opinion of employers would bring in that number only which is best for the country as a whole; likewise, it is doubtful whether the restriction that labor desires to see established would be that which could serve the best interest of the majority of citizens. It appears only sensible, therefore, that the question of immigration should be handled in a scientific manner under the guidance of long range vision and under the policy of the most benefit to the greatest number. In fact, this principle of handling the immigration question is that most commonly advocated, and there is no logical objection to its theory, but a real difficulty, in

fact, a great many real difficulties have obstructed the formulation of a practical working plan.

Practically every trade association of the country has been giving the immigration question study, many of them in co-operation with the Department of Labor and different legislators who are seeking an answer to the question. So far, the answer has not been found, nevertheless, there are certain facts and fundamental principles that must finally govern the issue.

In the first place, we know that certain industries are undergoing a shortage of labor, which has reduced the volume of production and has enabled certain industries to indulge in the pleasant pastime of what we designate as "profiteering." Until those industries get more labor, it is highly probable that the general public will get less for its money.

### Have We Enough Workers?

The statement has been made by various men of intelligence, as well as by many of little knowledge, that there are at present enough people in the United States to perform all necessary work, and they would probably be right if the seasonal and cyclical movements of industry could be wiped out, but the fact remains that native Americans decline with increasing disdain to wield a pick and shovel, and there is little doubt in anyone's mind that these implements must be wielded or industry will cease.

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Therefore, since the clerical class does not care to work with its hands, even at higher pay, the only answer appears to lie in additional immigration.

What industry in general, and construction in particular, needs most of all is diggers, shovelers, lifters, pushers and grunTERS to do the work that Americans will not do. All educational methods are producing clericals and intellectuals at sufficient speed, and certainly we must have the brawn and muscle to support them.

The present 3 percent. limitation of the immigration law, which was enacted to stop a threatened flood of immigration after the war, has actually reduced the alien workers of the country. Emigration has exceeded immigration, and this in the face of an enormous industrial expansion. That the country should not suffer a loss in its number of workmen is generally conceded, and the necessity for a change in the present law has become so apparent that a new law will undoubtedly be enacted by the next Congress. This fact is well known by labor, and it is already busy. It is important, therefore, that employers take care to point out their side of the immigration question.

It is not likely that any group could stampede through an immigration law even if it so desired, but it is essential that information bearing on all angles of the question should be placed before the legislators. The course of events at Washington during the past two years leads one to believe that legislation in that city moves somewhat in the manner of molasses on a level sidewalk and constant attention is necessary to keep it from spreading in all directions.

#### *A Selective and Elastic Law Necessary*

The new law, whatever its details, should be selective and elastic in its operations, a policy which depends upon successful administration for its effectiveness and it is probable that such administration can only be carried out through some sort of an immigration board.

Such a board by co-operation with the Departments of Commerce, Labor and Agriculture and commercial agencies, could obtain accurate information concerning the supply and demand of labor in any section of the country. This board should be invested with a power to raise or lower the number of aliens to be admitted, or even to prohibit immigration entirely if economic conditions and the welfare of the country warrant. It is through the medium of some such scientific board that we may hope to maintain a balance between the supply and demand for labor which is the real point of the controversy over immigration. The essential action is to determine by rational and scientific means when this balance is established.—*The Constructor*.

Wider use of metal window sash and frames is foreseen as a result of a series of scientific tests to determine the best window for the modern office building. After an extensive investigation the new \$15,000,000 thirty-two story Michigan Avenue skyscraper, the future home of S. W. Straus & Co., in Chicago, will be equipped throughout with metal windows.

The installation with metal instead of wood is in line with the effort of the Strauss organization to provide the new structure with every facility for efficient construction and economy of operation.

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Mr. W. H. Tusler, a Minneapolis architect, and chairman of the publicity committee of the Minneapolis chapter, American Institute of Architects, recently gave expression to the following, anent public concern in good architecture:

"Every building that is constructed is a public matter and as all buildings are seen, society has a right to demand that none be ugly.

"The building department of any city requires that no buildings be unsafe or dangerous to health; economy requires that they be not wasteful of space or ill suited to the purpose for which they are created. The investor realizes a well designed building is a better investment and a well constructed building is a more economical investment.

"All building undertakings are better, more valuable, if they are beautiful. Bad planning, waste space, poor means of circulation, fire hazards, usually result in loss of income, higher percentages of taxes to income and increased insurance rates.

"The average client is unequipped to design or direct the construction of his building. His attempt to do so is as certain to court disaster as would be his untrained efforts to supplant his physician for his own cure.

"The practice of architecture requires business executive ability of a high order. Inasmuch as the owner's financial

(Continued on Page 525)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Store (alts.),** 5620 Germantown avenue, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owners, Sacks Brothers, care of architect. General alterations. Plans in progress.

**Store and Apartments,** Fifty-second and Locust streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, W. Osmon, care of architect. Brick, 2 stories and basement, 15x85 feet, general alterations. Plans in progress.

**Residence (alts. and add.),** 629 Federal street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia, Pa. Owner, Vincent Marro, on premises. Brick, 3 stories. Plans in progress.

**Residence and Store (alt.),** 1500 South Sixteenth street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, Domenico Lourelli, on premises. Brick, 2 stories, 17x61 feet, hot water heat, electric light, slag roof, yellow pine floors. Plans in progress.

**Library (alts. and add.),** West Rittenhouse Square, Philadelphia. Architect, R. E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia City Institute, Eighteenth and Chestnut streets, Philadelphia. General alterations and additions. Plans in progress. Architect will take bids in one month.

**Apartment (alts.),** Eighth street and Oak Lane avenue, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, Administrator Max Mandelkern, care of architect. Slate roof, pine floors, hot water heat, electric light, changing partitions, plumbing, mill work, plastering, painting and glazing. Architect ready for bids.

**Club House (alts. and add.),** 1226 South Broad street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owners, Circolo Dante Alighiere, Octavio Monticello, president, 1226 South Broad street, Philadelphia. Brick, stone and steel, 1 and 2 stories, 8 feet 9 inches x 108 feet, slag roof, lighting extensions, skylights. Owner ready for bids.

**Church,** Howell street and Torresdale avenue, Philadelphia. Architect, S. D. Milner, 1117 Foulkrod street, Philadelphia. Owners, Wisconsin Presbyterian Church, Rev. W.

Cook, 5817 Torresdale avenue. Stone, steam heat, electric light, slate roof, first floor on present basement, 40x80 feet, maple floors. Architect will take revised bids in two weeks.

**District Office (alts. and add.),** Orthodox and Frankford avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, 2 stories, 20x16 feet, slag roof, cement and yellow pine floors, tile and marble work (plumbing, heating and electric reserved), bond. Architect taking bids due August 17th.

**Store and (2) Family Dwelling,** 4110 Lancaster avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Morris Goldberg, on premises. Brick, 3 stories, 89x19 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, marble work, hollow metal skylights, bond, iron work, metal ceilings. Architect taking revised bids due as soon as possible.

**Store Building (add.),** 8515 Germantown avenue, Philadelphia. Owner, J. L. Gillies, on premises. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Brick, 3 stories, 34x28 feet, hot water heat, electric light, metal lath, rolled steel sash, slag roof, yellow pine and composition floors. Architect taking bids due August 16th.

**Sewer Work,** Philadelphia, Pa. Owners, Department of Public Works, Bureau of Water, 2166 City Hall, Philadelphia. Schedule A, branch sewers; Schedule B, main sewer, Ogontz avenue, from Pittville avenue to Cheltenham. Schedule C, sewage disposal, completion of water and air piping at Frankford Creek grit chamber. Owner taking bids due August 21st at 11 A. M. (standard time).

**Apartment Building,** Fifty-eighth and Baltimore avenue, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, name withheld. Brick, 3 stories and basement, 41x75 feet, vapor heat, electric light, slag roof, hardwood floors, tile and marble work. Architect ready for sub-bids in two weeks.

**Post Office (alts.),** Eighth street below Oak Lane avenue, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadel-

phia. Owner-administrator, Max Pandelkern, care of architect. Plumbing, painting, mill work, plastering, cement work. Architect taking bids.

**Church (alts.),** Twenty-eighth and Master streets, Philadelphia. Architect, George J. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Ludwig's, Rev. George Michel, on premises. Interior decorating, electric work. Architect sub-letting.

**Residences (8),** West side Fourth street, South of Wingohocking street, \$5,000 each. Architect, private plans. Owner, Charles P. Trois, 743 East Penn street, Philadelphia. Brick, 2 stories, 15x27 feet, 11x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garages (2),** 2729 Jefferson street, Philadelphia, \$4,500. Architect, private plans. Owner, Edward Moerk, 2733 Jefferson street, Philadelphia. Brick, 1 story, irregular size, and brick, 1 story, 25x25 feet, slag roof, cement floors. Owner will build.

**Residences (4),** (2) East side Lawndale, North of St. Vincent, and (2) Tabor street, South of Cottman street, \$4,000 each. Architect, private plans. Owner, M. Glaser, 1238 North Lawrence street, Philadelphia. Frame, 2 stories, 16x35 feet, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (2),** North side Bleigh street, West of Whitaker street, \$4,000. Architect, private plans. Owner, John McMullen, 7330 Duncan road, Philadelphia. Brick, 2 stories, 16x38 feet, hot water heating, electric lighting. Owner will build.

**Residences (2),** West side Lawndale avenue, North of St. Vincent, \$3,000 each. Architect, private plans. Owner, Edward Davis, 7301 Oxford Pike, Philadelphia. Frame, 2 stories, 15x35 feet, 8x6½ feet, hot water heat, electric light. Owner will build.

The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.

## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Aug. 8, 1923.—Sealed Proposals will be opened in this office at 3 P. M., Sept. 5, 1923, for the construction of the United States Post Office at Waterloo, New York. The drawings contemplate a one-story and basement building, 75'x50', with brick facing and of non-fire-proof construction. Drawings and specifications may be obtained from the Custodian of the site at Waterloo, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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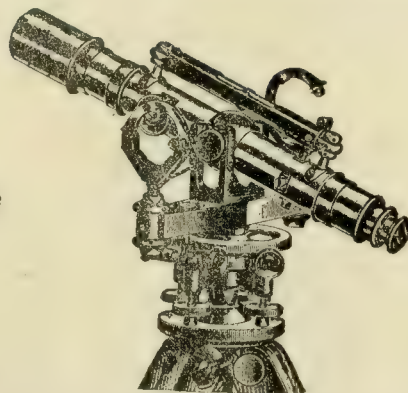
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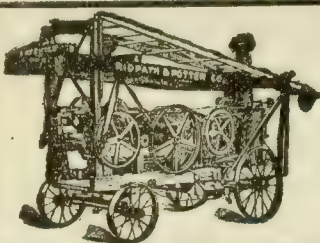
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## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Office Building (alts. and add.),** Northeast Corner Tenth and Washington avenue, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, Frank E. Mather, on premises. Brick, cut stone, 2 stories and basement, 30x30 feet (plumbing, heating, electric light reserved), slag roof, composition and pine floors, metal lath, tile and marble work, galvanized iron skylights, bond, iron work. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Residences,** North side Fuller street, East of Lorretta street, Philadelphia, \$6,700. Architect, private plans. Owner, George Walzer, 5833 Hazel avenue, Philadelphia. Frame, 2 stories, 29x40 feet, hot water heat, electric light. Contract awarded to William F. Garrison, 1338 North Tenth street, Philadelphia.

**Manufacturing Building (add.), Press Shop, L. and M. Building,** North Hunting Park avenue, East of Wissahickon avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. G. Budd Co., on premises. Brick, reinforced concrete and steel, 6 stories and basement, 319x100 feet, slag roof, cement and wood block floors (elevators, heating, plumbing and electric work reserved), safety treads, roof ventilators, rolled steel sash, saw tooth skylights, fire doors, bond, waterproofing, terra cotta coping, floor hardener, iron stairs, ornamental iron work, rolled steel shutters. Contract awarded to Wark & Co., 1600 Walnut street, Philadelphia.

**Moving Picture Theatre (alts.),** Northwest Corner Twelfth and Girard avenue. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. General alterations, 35x145 feet, interior alterations, steam heat, electric lighting, wood floors, plastering, painting, tile and marble work. Contract awarded to George W. Wagner, 2042 Rittenhouse street, Philadelphia.

**Garage and 5 Stores,** South side Limekiln Pike, between Church Lane and Ogontz avenue, Philadelphia, \$39,500. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owners, Sol and Harry Faggen, 1118 Chestnut street, Philadelphia. Brick, steel, 1 story, 86x135 feet, 180x102 feet, steam heat, electric light, rolled steel skylights, bond, terra cotta, cement and oak floors, slag roof. Contract

awarded to J. S. Fuller, 1615 Spruce street, Philadelphia.

**School Junior Dormitory,** City Line, Philadelphia. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owners, Mrs. Caskins School for Girls, Inc., on premises. Brick and artificial stone trim, 2 stories, 99x50 feet, 2 wings, 76x29 feet, 102 feet 6 inches x 26 feet, slag roof, maple, pine and composition floors, vapor heating, electric light. Contract awarded to Powell Const. Co., Ardmore, Pa.

**Stable and Garage,** Southeast Corner Eleventh and Westmoreland streets, \$43,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, William M. Pierson & Son, on premises. Brick, steel, 1 story, 230x52 feet, 1 story office building, slag roof, cement floors, bond, terra cotta. Contract awarded to Frank G. English, 1610 North Carlisle street, Philadelphia.

**Factory,** Southwest side Benner street, Southeast of Keystone street, Forty-first Ward. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owners, Joseph Pickard's Sons, on premises. Brick, slow burning, 1 story and basement, 50x141 feet. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Alterations,** Northwest Corner Frankford avenue, West of Thompson street, Philadelphia. Architect, private plans. Owner, H. Rosengarten, 944 North Twelfth street, Philadelphia. Brick work, roofing, cement work, carpentry and mill work, glazing, steel work, demolition. Contract awarded to A. S. Shafer, 1701 Green street, Philadelphia.

**Garages (2),** East side Emerald street, South Cambria street, Philadelphia, \$12,000. Owners, Ioska Tribe, 379, I. O. R. M., care of builder. Brick, 1 story, 26x18 feet, 18x164 feet 8 inches and 18x175 feet. Contract awarded to Harry Drake, 3139 Frankford avenue, Philadelphia.

**Store (alt. and add.),** Fifty-fourth and Girard avenue, Philadelphia, \$3,000. Architect, J. S. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, Guy Z. Baum, on premises. New stone front bulk windows, carpentry and mill work, oak floors, painting. Contract awarded to J. D. Fischer, 5424 Thompson street, Philadelphia.

**Manufacturing Building,** Fifth and Courtland streets, \$20,000. Architect, private plans.

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Owners, Parson's Specialty Co., on premises. Brick, 1 story, 60x110 feet, slag roof, steam heat, electric work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Manufacturing Building**, South side Thompson street, West of Thirty-first street, \$15,000. Architect, private plans. Owners, Penn Grain & Feed Co., 3120 Thompson street, Philadelphia. Brick, 2 stories, 33 feet 6 inches x 30 feet, slag roof, maple floors, steel sash, electric lighting. Contract awarded to E. E. Hollenback, 1804 Brandywine street, Philadelphia.

**Residence and Store**, Northwest Corner Edmund street and St. Vincent street, \$9,000. Architect, private plans. Owner, Carmino De Stefano, 7210 Edmund street, Philadelphia. Brick, 2 stories, 20x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to M. Fornaro, 7256 Hegeman street, Philadelphia.

**Residence and Garage**, 6715 North Sixth street, Philadelphia, \$5,000. Architect, private plans. Owner, F. A. England, 6715 North Sixth street, Philadelphia. Concrete block, 2 stories, 45x30 feet, slag roof, hardwood, pine and cement floors, hot water heat, electric light. Contract awarded to Miller & England, 1124 Washington avenue.

**Store and Office (add.)**, Southeast Corner Broad and Reno streets, \$5,000. Architect, private plans. Owner, Anna H. Taylor, care of W. I. Mingel, Widener Building, Philadelphia. Brick, 1 story, 9½x15 feet, slag roof, electric lighting. Contract awarded to Carl E. Widell, Woodlynn, N. J.

**Residences (2)**, West side Veree Road, South of Oxford Pike. Architect, private plans. Owner, Gus Soelle, 3509 North Randolph street, Philadelphia. Frame, 1 story, 29 feet 10 inches, 41 feet 10 inches, oak and pine floors, hot water heating, electric lighting. Contract awarded to A. Johnson, 3918 North Sixth street, Philadelphia.

**Residence and Store (alts. and add.)**, 2225 Germantown avenue, \$3,300. Architect, private plans. Owner, M. Rozmotski, on premises. Brick, 1 story, 12x12 feet, second and third story additions, 15x14 feet, slag roof, general alterations. Contract awarded to W. F. Andrews, 1419 North Orianna street.

**Garage (add.)**, 7211 Elmwood avenue, Philadelphia, \$3,300. Architect, private plans. Owner, A. Smith, Seventy-second and Elmwood avenue, Philadelphia. Brick, 1 story, 18x88 feet 6 inches and 18x8 feet, slag roof, cement floor. Contract awarded to Thomas M. Cockerill, 2242 St. James Terrace.

**Residences (2)**, West side Tabor Road, South of Cottman street, \$10,000 total. Architect, private plans. Owners, Falkenbach & Doyle, Kensington avenue and Lehigh avenue. Brick, 2 stories, 16x42 feet, hardwood and pine floors, slag roof, electric lighting, tile work. Contract awarded to John J. Falkenbach, 1202 Levick street, Philadelphia.

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**Garage (add.)**, 2509 North Reese street, Philadelphia, \$3,000. Architect, private plans. Owners, East Brothers, 2510 North Fifth street, Philadelphia. Brick, 1 story add., 18x25½ feet, slag roof, cement floors. Contract awarded to Charles Grindle, 609 West Tioga street, Philadelphia.

**Residence (add.)**, 4029 Green street, Philadelphia, \$2,500. Architect, private plans. Owner, James Green, on premises. Brick, third story add., 12x24 feet. Contract awarded to Warren E. Biscoe, 4222 Brown street, Philadelphia.

**Residence and Store (alts.)**, 3114 Ridge avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Israel Matrick, 738 South Fourth street, Philadelphia. General alterations. Contract awarded to J. Lagnator, 1101 North Forty-second street, Philadelphia.

**Residence (alts.)**, 447 East Mt. Airy avenue, Philadelphia, \$2,500. Architect, private plans. Owner, J. F. Gray, on premises. General alterations. Contract awarded to L. W. Kitzelman, 125 East Upsal street, Philadelphia.

**Garage**, Southwest Corner Fortieth and Haverford avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Brisford Gale, on premises. Brick, 1 story, 18x18 feet, slag roof, cement floors, electric work. Contract awarded to Warren E. Biscoe, 4222 Brown street, Philadelphia.

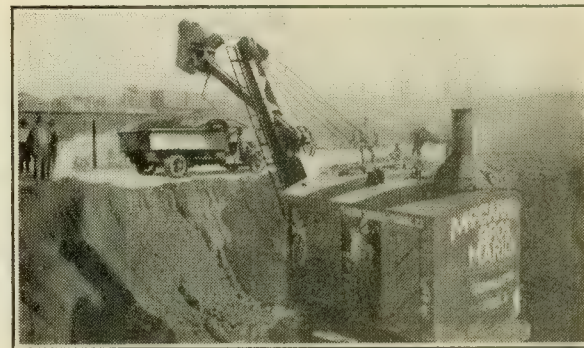
**Residence**, West side Bustleton avenue, North of Tomlinson Road, \$8,200. Architect, private plans. Owner, William Harris, Somerton, Pa. Frame, 2 stories, 36x28 feet, garage, 1 story, hardwood, pine and cement floors, hot water heat, electric light, tile work. Contract awarded to S. P. Prand, Parkland, Pa.

**Building (alts.)**, 1630-32 Vine street, Philadelphia, \$4,500. Architect, private plans. Owner, William H. Baile, on premises. General alterations. Contract awarded to H. & S. Const. Co., 554 North Sixteenth street, Philadelphia.

**School (add.)**, Northwest Corner Palmer and Thompson streets, \$4,170. Architect, private plans. Owners, Board of Education, City of Philadelphia, Nineteenth street above Chestnut street, Philadelphia. Brick, 1 story add., 23½x13 feet, slag roof, cement floors. Contract awarded to Joseph W. McHugh, 34 South Seventeenth street, Philadelphia.

**Store and Residence (repairs)**, 847 Montrose street, \$3,345. Owner, Giuseppe Luca Guento, 849 Montrose street, Philadelphia. General fire repairs. Contract awarded to Seurci & Marcane, 2640 South Twelfth street, Philadelphia.

**Store (alts.)**, Northeast Corner Eleventh



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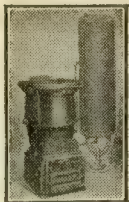
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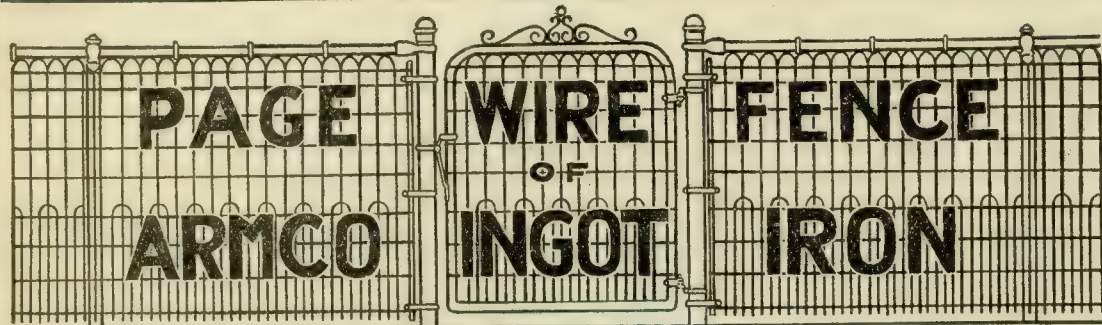
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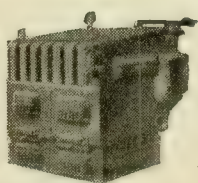
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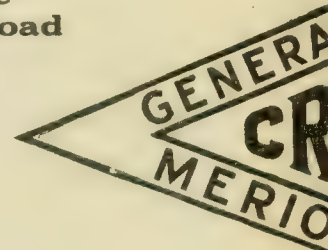
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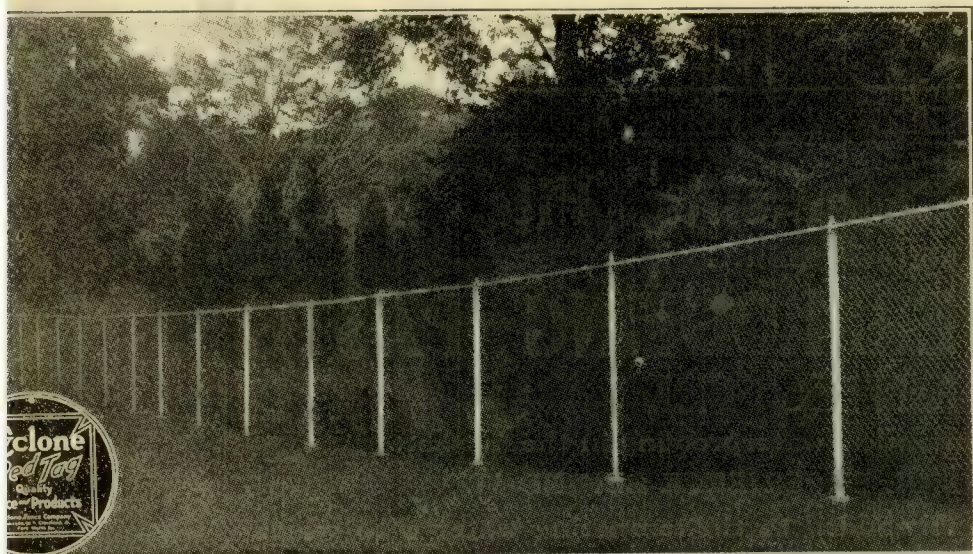
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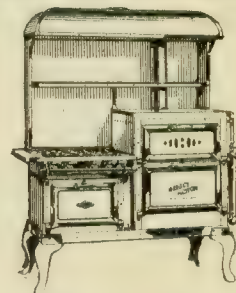
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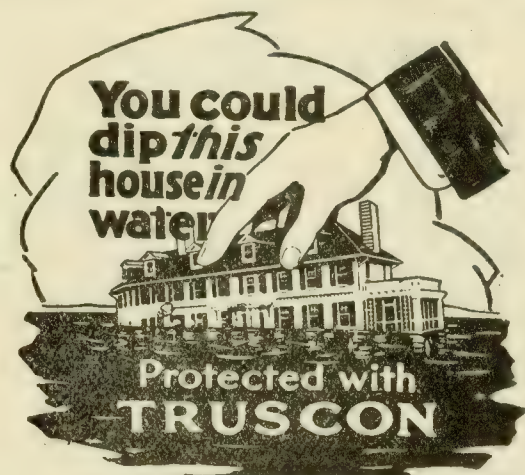
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and Chestnut streets, Philadelphia, \$3,000. Architect, private plans. Owners, Hollander & Fleischman, on premises. Plate glass windows. Contract awarded to Basch & Co., Ruan and Tackawanna streets, Philadelphia.

**Store and Residence (add.),** 4405 Chestnut street, Philadelphia, \$3,000. Architect, private plans. Owner, William Komens, 1801 North Thirty-third street, Philadelphia. Brick, 1 story, 16x6 feet. Contract awarded to Ferry & Howsten, 5955 Osage avenue, Philadelphia.

**Residence,** 3457 Walnut street, Philadelphia, \$3,000. Owner, Sarah E. Ennis, on premises. Brick, 1 story add., 22x7½ feet, hardwood floors, electric work. Contract awarded to A. MacTavish, 2028 Waverly street, Philadelphia.

**Store and Residence (alts. and add.),** 320 South Sixtieth street, \$2,800. Architect, private plans. Owner, David Robinowitz, on premises. Brick, 1 story, 17x3 feet, and 2 stories, 16x6 feet, general alterations. Contract awarded to N. De Baggis, 232 North Sixty-fourth street, Philadelphia.

**Residence and Store (alts.),** 737 East Allegheny avenue, \$2,500. Architect, private plans. Owner, M. Bandyk, 3643 North Eleventh street, Philadelphia. General alterations. Contract awarded to S. Pietrykowski, 3074 Aramingo avenue, Philadelphia.

**Stores (add.),** Southeast Corner Fifty-eighth and Master streets, Philadelphia, \$2,000. Architect, private plans. Owner, I. Silverman, 226 South Fourth street, Philadel-

phia. Brick, 1 story, 16x13 feet and 16x14 feet, slag roof, pine floors. Contract awarded to I. Snyderman, 1435 North Franklin street, Philadelphia.

**Store and Residence (add. and alts.),** 707 North Second street, \$2,000. Architect, private plans. Owner, V. Arata, 716 New Market street, Philadelphia. Brick, 1 story, 9x14 feet, general alterations. Contract awarded to John Belko, 149 Laurel street, Philadelphia.

**Store and Residence (alts.),** 2629 West Girard avenue, \$2,000. Architect, private plans. Owner, Samuel J. Bibman, on premises. General alterations. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Store and Residence (alts. and add.),** Southeast Corner Tenth and Girard avenue, \$4,800. Architect, private plans. Owner, A. Raichlyn, on premises. Brick, second story add., 9x20 feet, general alterations. Contract awarded to Marcus & Pachman, 924 West Girard avenue.

**Residences and Stores (2),** 2515-17 South Broad street, Philadelphia, \$3,000 each. Architect, private plans. Owners, Renzulli & Dismond, on premises. General alterations. Contract awarded to L. Manfredi & Co., 1547 South Ringgold street.

**Residence (repairs),** 112 West Sharpnack street, Philadelphia, \$3,000. Owner, Edward Jackson, on premises. General fire repairs. Contract awarded to W. A. Evitts, 5001 Chestnut street, Philadelphia.

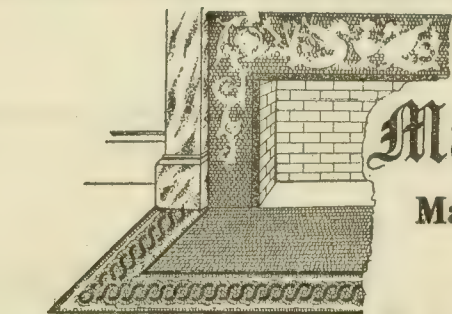
**Repairing Fire Damage,** 1524 South Ninth street, Philadelphia, \$3,000. Owner, S. Mariano, 917 Christian street, Philadelphia. Contract awarded to M. Traglio, 750 South Ninth street, Philadelphia.

## Pennsylvania Construction News

**Church,** Bensalem, Pa. Architect, A. M. Dobbins, 1701 Arch street, Philadelphia. Owners, Bensalem Methodist Episcopal Church, Bensalem, Pa. Frame and stucco, 1 story, 80x32 feet, shingle roof, hardwood and pine floors, electric light. Plans in progress.

**Residences (5),** Merion, Pa., \$250,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, various sizes, slate roof, hardwood floors, electric light, tile and marble work. Plans in progress. Will be ready for bids in six weeks.

**Stores and Apartments (3),** Ardmore, Pa. Architects, Mackenzie & Wiley, Liberty Building, Philadelphia. Owner, Joseph Mandes, Ardmore, Pa. Stone, 2 stories, 60x52 feet, hot water heat, electric light, slag roof, hardwood floors, plate glass. Plans in progress.



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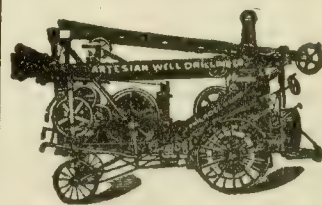
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**Stores and Apartment (6),** Ardmore, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, name withheld. Brick and steel, 2 stories, 140x40 feet, hot water heat, electric light, metal lath, tile and marble work, slag roof, hardwood, composition, terrazzo and cement floors, metal bulks, plate glass. Plans in progress. Architect will take bids in one week.

**Hotel (alts. and add.),** Bryn Mawr, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, name withheld. Concrete block and plaster, 2 or 3 stories, 65x50 feet, hot water heat extension, electric extension, slag roof, tile work, fire tower. Plans in progress. Architect will take bids in 3 weeks.

**Residence (alts. and add.),** St. David's, Pa. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, G. L. Harrison, St. David's, Pa. Stone, general alterations, 2 stories. Architect will be ready for bids in a few days.

**Bank Building,** Paoli, Pa. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owner, Utley Wedge, Franklin Trust Building, Philadelphia. Brick and terra cotta, 2 stories, 50x50 feet, composition roof, hardwood floors, electric light, vapor heat. Owner taking sub-bids.

**Residences (2),** Elmwood, Pa. Architect, John C. Norton, Bryn Mawr, Pa. Owner, James A. Tunnell, Bryn Mawr, Pa. Concrete block, 2 stories, 14 feet 6 inches x 36 feet each, hot air heat, electric light, slag roof, pine floors. Plans in progress. Architect will take sub-bids in a week.

**Residences (6),** Springfield, Pa. Architects, Mackenzie & Wiley, Liberty Building, Philadelphia. Owner, George Wilcox, Land Title Building, Philadelphia. Stone, brick, frame and plaster, 2 stories, (5) 23x30 feet, (1) 27x40 feet, shingle roof, composition, hardwood and pine floors, electric light, hot water heat. Owner will build.

**Residence,** Haverford, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, T. J. McGoldrick, Railroad and Martin avenue, Haverford, Pa. Concrete block, 2½ stories, 60x30 feet, hot water heat, electric light, tile work, shingle roof, hardwood floors. Plans completed. Owner taking bids.

**School,** Morrisville, Pa. Architects, P. I. Fowler Co., Fitzcharles Building, Trenton, N. J. Associate architect, T. B. Stockham, Morrisville, Pa. Owners, Morrisville School Board, Mr. Taylor, secretary, Morrisville, Pa. Brick, hollow tile and steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine

floors, hollow tile, safety treads, roof ventilators, metal ceilings, waterproofing and damp-proofing (heating, electric work and plumbing reserved), metal lath, rolled steel sash, fire doors, bond, steel stairs, ornamental iron work. Owners taking bids due August 28th.

**Bell Telephone (add.),** Sunbury, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, 2 stories, 27x52 feet, steam heat, electric light, slag roof, cement floors, tile and marble work, bond, iron work. Architect taking bids due August 20th.

**Church (alts. and add.),** Tower City, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Paul's Lutheran Church, Rev. I. G. Franklinfield, Tower City, Pa. Brick, 1 story and basement, 80x100 feet, slate roof, hardwood floors, electric light, general interior alterations. Plans in progress.

**Residence,** near Leesport, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Carrie Whitner Rick, Reading, Pa. Stone, fireproof, 2½ stories, 34x110 feet, slate roof, hardwood floors, electric light, tile and marble work. Plans in progress. John Rick, care of Whitner Co., 438 Penn street, Reading, will take bids.

**Show Room,** Minersville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, S. E. Noel, Minersville, Pa. Fireproof, 2 stories, 50x50 feet, slag roof, hardwood floors, electric light. Architect taking bids due as soon as possible.

**Office,** Myerstown, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Son, 75 Lord street, New York City. Brick, 1 story, 36x31 feet, Barrett Specification roof, pine floors, electric light, rolled steel sash, fire doors. Architects taking bids due August 18th.

**Convent,** Lost Creek, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Rev. William T. Kelly, Lost Creek, Pa. Frame and stone, 3½ stories, 40x90 feet, slate roof, pine floors, electric lighting. Owner is taking sub-bids.

**Machine Shop,** Myerstown, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, S. Liebovitz & Son, 75 Lord street, New York City. Brick, 1 story, 26x34 feet, Barrett Specification roof, concrete floors, electric light, rolled steel sash, fire doors. Architect taking bids due August 18th.

**Residence and Garage,** Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, Robert G. Willson, 550 North Third street, Reading, Pa. Brick, 2½ stories, 60x26 feet, asbestos shingle roof,

hardwood and concrete floors, electric light, tile work. Owner is taking sub-bids.

**Residence and Garage,** Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, A. K. Ludwig, Northmont, Reading, Pa. Brick, 2½ stories, 42x44 feet, asbestos shingle roof, pine floors, electric lighting. Owner will build.

**Residences (8),** Penn Side, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, J. B. Schaeffer, 506 Carsonia avenue, Reading, Pa. Brick, 2 stories, 20x42 feet, tin roof, pine floors, electric light. Owner will build.

**Road Work,** Pennsylvania. Owners, State of Pennsylvania, State Highway Department, Harrisburg. Low bidders on road work opened August 7th, 1923:

Delaware County, A-1242 and 1249, Trainer Borough and Lower Chichester Township, length 7,880 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Highway Const. Co., Land Title Building, Philadelphia, \$81,601.24.

Erie County, R-86 and 272, A-2327 and 2328, Fairview Township and Borough, 21,653 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Mayer Brothers Const. Co., Erie, Pa., \$151,594.70.

Delaware County, R-133, Maple and Newtown Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. Highway Const. Co., Land Title Building, Philadelphia, \$122,748.68.

McKean County, R-95, Spur Township, A-2273, Wetmore Township and Kane Borough. One course reinforced concrete. J. C. Devine Co., Alliance, O., \$154,270.70.

Northampton County, A-2355, Lower Bethel Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Ambler Davis Co., Harrison Building, Philadelphia, \$273,565.70.

Northampton County, A-2227, Upper Nazareth and Bushkill Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. The Juniata Company, Empire Building, Philadelphia, \$175,200.80.

Monroe County, A-2452, Pocono and Paradise Townships. Bituminous surface treated macadam. William E. Supplee Co., Wayne, Pa., \$54,945.60.

Indiana County, A-2431, Burrell Township. One course reinforced concrete. A. R. Cooper, Idamar, Pa., \$14,253.70.

Beaver County, A-2578, Center and Hopewell Townships. One course reinforced concrete. D. W. Challis & Sons, Inc., Sewickley, Pa., \$36,055.25.

Erie County, R-295, A-2316, 2317 and 2318,

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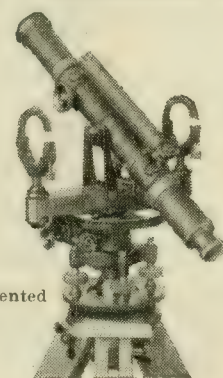
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Elk Creek and Conneaut Townships and Cranesville Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Charles H. Fry Const., Erie, Pa., \$176,825.78.

#### Resurfacing—

Butler County, R-73, Center and Butler Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. D. E. Walter, Butler, Pa., \$118,849.20.

Fayette County, R-247, Dunbar Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. W. H. Wilkey, Uniontown, Pa., \$88,376.

Greene County, R-111, Franklin Township. Either bituminous surface course, Spec. D. Meyers Paving Co., Waynesburg, Pa., \$37,394.

Tioga County, R-1969, Richmond and Covington Townships, 13,978 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. A. W. Hinaman, Canton, Ohio, \$127,446.95 and \$118,091.95.

Low bidders on road work opened August 8th, 1923:

Northumberland County, R-92, and Montour County, Point Township, Mahoning Township and Danville Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. T. B. Evans, Danville, Pa., \$182,878.16.

York County, R-124, A-2178, Dover Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Warren Brothers Co., Boston, Mass., \$73,379.10.

Monroe County, R-167, A-2195, East Stroudsburg Borough. Either vitrified brick on concrete foundation or bituminous surface course on concrete foundation. Standard Bitulithic Co., 50 Church street, New York, \$118,518.45.

Delaware County, A-2573-2574 and 2575, Springfield, Mangle and Upper Providence Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. Vincenzo Di Francesco, Lancaster, Pa., \$176,286.89.

McKean County, R-211, A-2369, Otto and Foster Townships. One course reinforced concrete and hillside vitrified brick. D. L. Dennis, Eldred, Pa., \$139,728.70.

Erie County, R-258, A-2357, Washington Township. One course reinforced concrete and hillside vitrified brick. W. B. Const. Co., Erie, Pa., \$61,967.67.

Erie County, R-258, A-2331, Summit, Mill Creek and McKean Townships and Middleboro Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Johnson, Drake & Piper, Inc., Slippery Rock, Pa., \$208,189.18.

Northampton County, A-2222, 2223, 2224, Washington and Plainfield Townships and Bangor Borough. Bituminous surface course

on concrete foundation or one course reinforced concrete. W. Grant Raub, Red Lion, Pa., \$378,232.74.

Dauphin County, R-1, Halifax and Upper Paxton Townships. One course reinforced concrete. Bennett Randall Co., Lebanon, Pa. Half width sections, \$48,558.50; full width, \$45,348.50.

Susquehanna County, A-2513, Montrose Borough. One course reinforced concrete and hillside vitrified brick. E. V. Chappell, Binghamton, N. J., \$15,208.50.

Lehigh County, R-163, Slatington Borough. One course reinforced concrete and hillside vitrified brick. Weaver Const. Co., Allentown, Pa., \$64,697.20.

#### Resurfacing—

Fayette County, R-247, Perry Township. Bituminous macadam (penetration method). Garvey-Weyenberg Const. Co., Appleton, Wis., \$68,609.95.

Northampton County, R-175, Upper Nazareth Township. One course reinforced concrete. Juniata Co., Empire Building, Philadelphia, \$111,190.

Washington County, R-108, North Strabane Township. Either bituminous macadam (penetration method) or bituminous surface course on reconstructed base course. Garvey-Weyenberg Const. Co., Appleton, Wis., \$46,109.55.

## Pennsylvania

### Contracts Awarded

Grade School, Third and Harry streets, Conshohocken, Pa. Architect, John Young, 39 South Seventeenth street, Philadelphia. Owners, School District and Borough of Conshohocken, Pa. Brick and stone, 2 stories, 90x100 feet. Contract awarded to Ludwig Kowalkowski, Conshohocken, Pa. Plumbing, J. Finneran, Conshohocken, Pa. Heating and ventilating, Christman Quillman, Norristown. Electric, Charles McCaul, care of architect.

Residence and Garage, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Philip Moore, 6644 Germantown avenue, Philadelphia. Stone and brick, 2½ stories, 54x27 feet, hot water heat, electric, tile work, slate roof, oak and pine floors. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Pa.

Residence, Mt. Penn, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Build-

ing, Reading Pa. Owner, J. R. Griebel, Reading Tile Mfg. Co., Reading, Pa. Stone, 2 stories, 51x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa.

## New Jersey

### Construction News

Hotel, Beacon-by-the-Sea, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, name withheld. Architect selected.

Store and Residence (alts. and add.), Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, L. Donien, care of architect. Brick, 1 story, 16x15 feet, slag roof, concrete floors, hot water heat, electric light, tile work, general interior alterations. Plans in progress.

Woman's College, New Brunswick, N. J., \$250,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, care of architects. Brick, steel, concrete, hollow tile, 2 stories and basement, 158x78 feet, slate roof, mastic and hardwood floors, hollow tile, roof ventilators (heating, plumbing and electric work reserved), tile work, marble work, rolled steel sash and skylights, iron stairs. Plans in progress. Architects will be ready for bids next week.

Hotel Brighton (add.), Atlantic City, N. J. Architect, Lloyd Titus, Hotel Strand, Atlantic City, N. J. Owner, Frank B. Off, Hotel Brighton, Atlantic City, N. J. Reinforced concrete, granite, brick, steel, 5 stories, basement and loft, 96x45 feet, 72x54 feet (heating and plumbing reserved), slate roof, yellow pine floors, hollow tile, elevators, metal weather strip, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, tin-clad and kalamein doors, copper skylights, sheet metal sash, tile and marble work, electric lighting. Owner taking bids due August 21st.

## New Jersey

### Contracts Awarded

Residence, Montclair, N. J. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Hasson Realty Co., Montclair,

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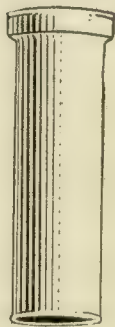
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**Residence**, 151 South Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mrs. Daniel J. Bechtel, 480 West State street, Trenton, N. J. Brick, 2 stories, 87x25 feet, slag roof, yellow pine floors, hot water heat, electric light, metal lath, tile and marble work. Contract awarded to Karno Smith Const. Co., Broad Street Bank Building, Trenton, N. J.

**Store and Office (alts.)**, North Broadway, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, W. I. Mirkil, care of architect. General alterations, hot water heat, pine floors, terra cotta. Contract awarded to Karl Widell, Woodlynn, N. J.

(Continued from Page 516)

interests are deeply involved in the architect's action, the integrity of the latter must be above question. The development of a well equipped architect demands long and careful study and preparation."—*Architect and Engineer*.

#### SMALLER HOUSES AND INCREASED CONVENIENCE AIM OF MODERN ARCHITECTS

Love in a cottage was once considered the highest form of newly wedded bliss. The young matron with a small house all her own was monarch of all she surveyed and was taken as a fitting representative of the feminine side of American life. She was traveling in the steps of her mother, grandmother and frequently her great-grandmother.

The growth of cities and the consequent high prices demanded for building sites, even in comparatively small cities, have wrought a change in a great many features of American life. Housing is one of them. The bride of today, if her house is in a growing city, more often than not, now goes to housekeeping in an "apartment." This "apartment" may be anything from two or three rooms up to a half a dozen. The old type of kitchen gives place to a kitchenette not much larger than a good sized clothes closet in a house of by-gone years.

The old time American house, usually built of wood, with agreeable surroundings, was usually a building of rather generous dimensions. What it lacked in

conveniences it made up in size. It has a huge kitchen, one or more big porches, frequently a lawn adorned with more or less shrubbery and a few trees, and nearly always a generous kitchen garden in the rear. Such an establishment was deemed a fitting representative of the independence and comfort of American life. "Flats" belonged almost exclusively, in this country to New York, and flat dwellers were regarded with a certain amount of pity more or less kin to contempt.

Life in a "flat" was thought to be not much better than life in a tenement. It was supposed to represent crowded and unwholesome conditions and to smack of the over-crowding of European cities.

Growing industry, expanding commerce, increasing population in cities and advancing prices in real estate have changed all this. Apartment houses, two-family houses, terraces and other forms of dwellings designed to save space and increase revenue, have almost engulfed the old One-family house, denuded its setting of shade trees and shrubbery, shorn it of its kitchen garden and obliterated its lawn.

A great deal of the building ingenuity of the present day is naturally expended on such structures. Builders are recognizing, as a matter of course, that houses designed to accommodate two or more families must be equipped with conveniences and appliances for saving labor and insuring comfort. They are also recognizing the present-day demand for cozy quarters—that is, for rooms far smaller than those of the old single-family house type.

As an outcome of this demand bed rooms are no longer 24x24 feet in dimension, but are more often 10x12 feet. Bedrooms of these dimensions are accepted today as filling every requirement of modest comfort and great convenience. Bed rooms even as small as 9x11 feet are considered adequate for one or two persons.

Old fashioned parlors and drawing rooms have gone the way of hoop-skirts and stove-pipe hats. They are reminiscences of the past. The present day living room, about 16x24 feet in size is regarded as having generous dimensions and sufficiently large for the average family.

Relatively small rooms and compact arrangements have made it necessary for the builder of today to be alive to the distribution of doors and windows. Housewives are careful to note whether rooms "furnish well" or whether that air of cosiness so much desired in small quarters is missing.

The window or windows and doors in each of the bed rooms must be placed so that they do not interfere with the arrangement of furniture. This is also true of the family living room and the small dining room. Architects are therefore finding it highly necessary to make a study of each room finished and furnished before completing his plans. In the old type of house space was usually so generous that, if doors, windows and closets were not happily placed, there was nevertheless sufficient room available for placing furniture to good advantage without seriously interfering with avenues of ingress or egress.

Arranging doors, windows and closets so that the bed must be placed with its foot directly opposite a window is not in accordance with the desire of the housewife of the present day. Such an arrangement means that the sleeper on awakening is greeted by the glare from a window or a draught of cold air blowing directly on the face.

The woman of today also is far from being satisfied with a living room in which the windows or doors are so placed as to make it difficult to place a davenport or other large piece of furniture which taste or convenience dictates should have a place in the furnishings of a room. The dining room though small must lend

(Continued on Page 528)

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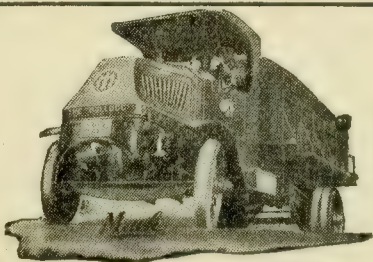
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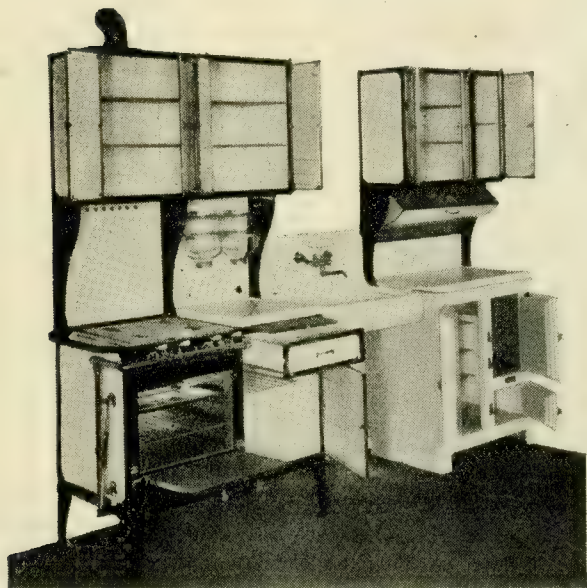
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Range, refrigerator and cabinet units with the sink arranged on one wall

By J. L. WIENER, Architect

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*The modern woman demands an efficient kitchen—a kitchen in which conservation of time and effort is the keynote. The architect must meet her demands in kitchen design. The author of this article, who is a deep student of home design points out the reason why.*



Range and broom closet units on one wall with refrigerator unit and sink on opposite

**"R**UNNING a home is running a business!"

Whether or not we believe that statement, we must recognize that it is the modern woman's idea and that she will select a home or an apartment that seems to offer the best facilities for the business of housewifery.

When a woman considers buying or renting a home, she looks first at the kitchen. In reality it is her "workshop" where her most productive effort is put forth.

To a woman's mind, the kitchen offers possibilities for creative work—the pleasure of "making something" which offsets the more or less humdrum labor which other parts of the house demand.

But just as the workshop equipment of 50 years ago has become obsolete, so is the kitchen equipment of a generation ago not suited to modern conditions.

The modern woman demands a modern kitchen. Let us for a moment consider why.

The last hundred years have witnessed the appearance and development of several factors which have vitally affected home management.

The growth of large cities, with the resultant concentration of population in limited areas, has increased rents and caused the development of apartment houses which are, of course, nothing more than co-operative homes where the rent is pro-rated among the tenants.

Dust and dirt-creating agencies have been concentrated in and around the centers of population, and this has increased the time and effort required for washing and dusting in the home, particularly in the kitchen.

The domestic labor supply has de-

modern woman is the greatest factor in bringing about a modernization of the home equipment.

Then, too, the increase in food and fuel values has made necessary drastic economies in the kitchen. These economies are accomplished by the employment of

mechanical devices for cooking, washing and cleaning, thus eliminating domestic help, which must be housed and fed.

The question of woman's health is more pressing than it was when outdoor occupation helped to maintain her vitality. Today she must conserve her energies for the sake of herself and her family.

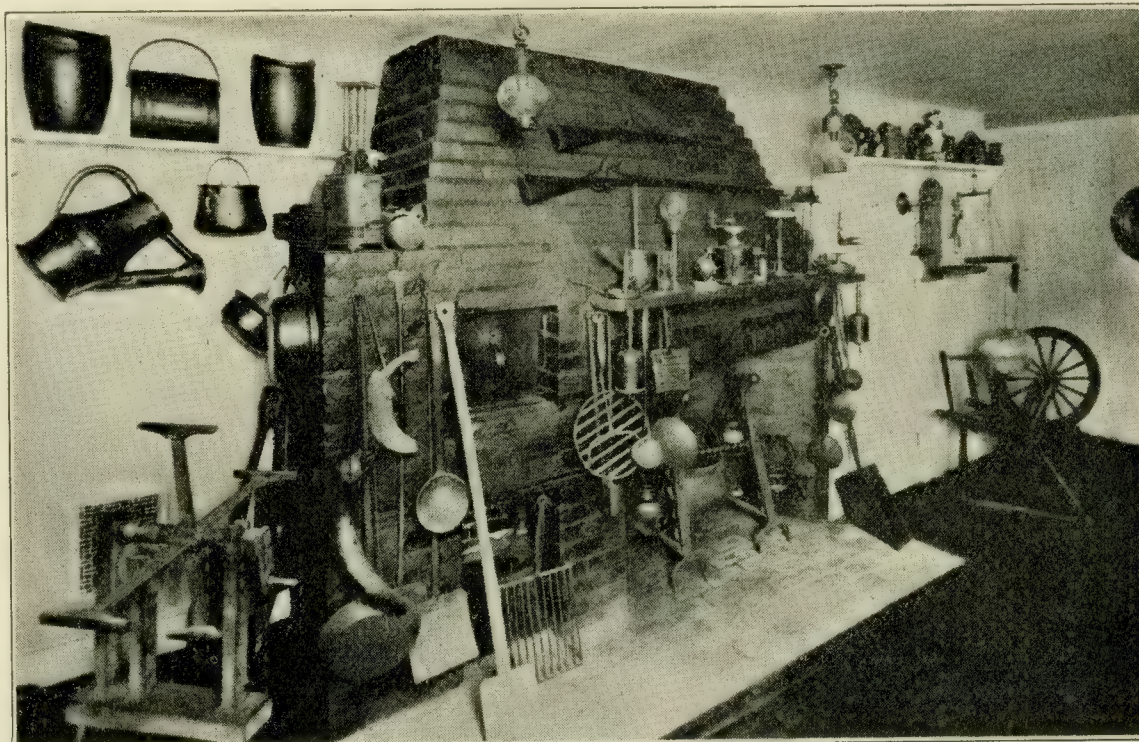
This brief review of the economic and social changes which have affected home operation, shows clearly the reason for the need for a modernization of the kitchen.

According to domestic economists, the ideal kitchen to meet modern needs must be well light-

ed and ventilated. The equipment, which must include the stove, the ice box, the sink, the kitchen cabinet, chairs, and perhaps a table, if space permits, must all be so placed as to decrease the effort necessary for their combined utilization, and must be composed of easily-cleaned materials which will resist wear and corrosion.

The preparation of food must be accomplished quickly and efficiently, and the business of cleaning must be done with a minimum of effort.

Because of these reasons the semi-



This is the kitchen in the home of John Howard Payne, who wrote "Home, Sweet Home," one hundred years ago—a typical kitchen of our great-grandmother's time

creased, while compensation for domestic service has gone up several hundred per cent. This condition has made it necessary for the woman to perform herself many of the unpleasant tasks that were once done by cheap labor.

The modern woman takes an active part in business and public affairs. Many women aid their husbands or sons and daughters in commercial work. This tendency demands that less time shall be spent in the maintenance of the home without a lessening of its efficient operation. Perhaps this dual capacity of the



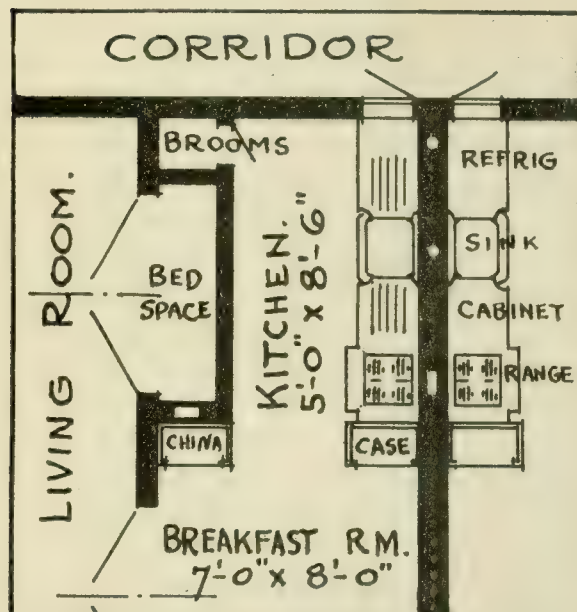


Range, broom closet and large refrigerator units, with additional storage space above

furnished apartment in which the kitchen equipment is built-in for the tenant's use, has of recent years become much in demand.

In order to meet this demand, and the other requirements in modern kitchen arrangement, architects are designing special equipment for apartment use. An efficient unit, which meets modern needs in every way and occupies a minimum of space, has been devised by the Cabranette Corporation of Chicago. Seen in the illustrations reproduced herewith the various utilities are a combination made up of smaller and interchangeable units to form a variety of layouts. In the construction of these units conservation of space and operating effort is truly the keynote. The materials used are carefully selected for their wearing qualities and cleanable surfaces.

As shown in the accompanying sketch and as described below a complete



Showing the kitchens of two adjoining apartments with plumbing contained in the wall between

kitchen of full-sized units may be assembled in a space 8 feet 6 inches by 5 feet. This means that the housewife practically does not have to move from her position to reach anything in her kitchen.

There is a full four-burner stove top with a standard 18-inch combined oven and broiler beneath. Adjoining the oven and separated from it by a well insulated steel and asbestos wall is the pot and pan compartment with a drawer for cutlery immediately above it.

The drain board performs the two-fold purpose of drain board and table top. Directly underneath this table top is a bread board. Above the table top are glass bins for coffee, flour or sugar.

Cupboards extending the full width of the equipment are supported on brackets attached to the base of the equipment.



A modern apartment building, with 160 apartments. Rentals average \$200 per room, per month. Fugard & Knapp, architects

However, each different unit has the high closet or cupboard attached to that unit so that they may be placed at the disposal of the architect. There is a double bottom in the high closet above the range unit, which is well insulated with asbestos against the heat from the stove top. This cabinet also forms a hood over the stove top, the fumes of the cooking being carried off by a vent in the back splasher underneath the cabinet.

On the top of the refrigerator, which is of 75-pound ice capacity, is placed another combination porcelained, iron drain board and table top. The cabinets above are fastened to the refrigerator by means of brackets, and directly

underneath this cabinet is a row of tilting bins, which may be used for vegetables, flour, packages, etc.

Summarizing this description of the Cabranette Kitchen Units, it will be seen that it is possible to place the following utilities within a room containing only 42 square feet.

A 72-inch sink with two drain boards; a 26-inch, four-burner range top; an 18-inch oven and broiler; a 75-pound refrigerator (3 door); 24 lineal feet of shelving; a pot and pan storage compartment; a cutlery and utensil drawer; glass bins for flour and sugar; metal bins for packages, vegetables, etc.; a bread board; spice jars, etc.

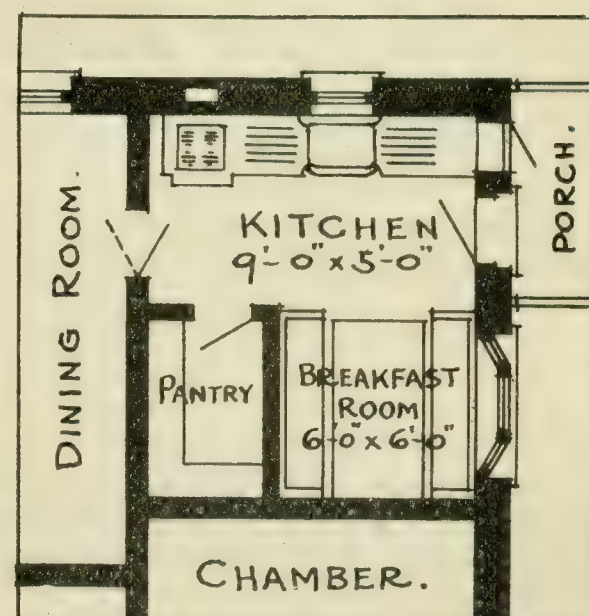
In apartment houses where it is important to conserve space, a great saving of money can be effected by placing the kitchen equipment on one wall and the equipment in the two adjoining apartments back to back.

The sketch showing the kitchens of adjoining apartments illustrates this point. It is possible then to place all of the plumbing in the wall between and use one plumbing stack for the two adjoining apartments.

With the two-wall arrangement the same units can be assembled in an even smaller floor space, having the same features as the one-wall arrangement, but one drain board must be replaced by a square porcelained enameled table top. These tops are furnished for either the range or refrigerator units.

The kitchen of the small house is usually a room about 9 feet by 11 feet. In the sketch shown below, advantage is taken of the use of a compact arrangement of the kitchen units by devoting the remainder of the floor space of the room, not required for the kitchen, to a storage pantry and a breakfast room, all within the space formerly used exclusively for the kitchen.

All units are full sized and are furnished either right or left hand. It is the



Gaining a breakfast room and pantry by the use of condensed equipment in a bungalow kitchen



arrangement of parts that gives the compactness that cannot be gained by any other equipment.

The units are made of "Armco" ingot iron sheets, ranging from 16 gauge to 24 gauge. It would be impossible to construct units such as these with any other material, and no other finish except porcelain would withstand the heat of the oven or the wear that such equipment is subjected to. The ease with which it may be kept clean is a most desirable feature. All exposed surfaces have a porcelained finish and are of 20 gauge metal. The oven parts vary in gauge in accordance with American Gas Association standards. All units are of the same height, 6 feet 9 inches, which makes it possible for an architect to adapt these units to his plan in a variety of ways and if the plan is not made to accommodate the units, the units can be placed to accommodate the plan. Of course, if the architect starts out with certain definite units in mind, he can effect a great saving in the cost of his building. It is, therefore, well for an architect to consult with the owner and definitely decide what equipment to use before going ahead with his plans, just as he definitely decides to use a 5 foot 6 inch bath-tub before he lays out his bath-room.

As an example of the type of apartment building that modern conditions have made popular, and where such a kitchen unit just described is ideal, let us consider a structure recently erected in Chicago, on the universally-known Lake Shore Drive. The building is eighteen stories high, of steel frame, fireproof construction and contains 160 apartments of one, two and three rooms, each with bath. The three-room apartments will be let completely furnished with hotel service at a monthly rental of from \$575 to \$775 each.

The kitchens of the apartments will be equipped with kitchen units built by the Cabranette Corporation of Chicago.

This building was designed by Fugard & Knapp, architects, and built by the McLennen Construction Company, and represents the highest type of apartment house architecture and construction.

Thus we see the problems of modern construction not only require inventive genius, but ability to combine utilities to conserve space and decrease labor in order to satisfy modern economic demands.

—*Pure Iron Era.*

(Continued from Page 525)

itself readily to its purpose and must be arranged so that a sideboard or buffet will not be an incumbrance; a convenience instead of an intruder.

The combination living room and bedroom equipped with a folding bed which is really invisible when not in use, has

become an accomplished fact and is accepted as solving a part of at least of the problem of economically housing a small family and at the same time furnishing exceedingly comfortable quarters. The one room apartment with a small bath room and kitchenette, with a pullman table as a kitchenette feature is meeting with much favor among both landlords and tenants.

The combined bed room and living room is about half as large again as the usual small apartment house bed room. Dimensions of such rooms are frequently 12x18 feet or sometimes 12x16 feet. A good deal of architectural ingenuity has been expended on structures whose upper stories are divided into rooms of this type.

Old ideas of apartment houses were that they must be several stories in height to be adequate revenue producers, but it has been found that in moderate sized cities at least, the two-story brick building substantially constructed with store rooms on the ground floor are good money earners and desirable places of residence.

Cities in Ohio and other central states are specializing in buildings of this class.

—*National Builders' Bulletin.*

#### ARCHITECT AND ENGINEERING

The relation in an architect's practice which the two elements, construction and design, shall bear to one another, has always been somewhat confusing. It has not been an infrequent occurrence to find men who were extremely clever at designing, and yet who could not carry out their designs without the greatest assistance from others specializing in construction. While the scheme of our business today requires a certain amount of specialization in any work, it is unfortunate if this specialization in architecture is carried to the extreme of ignorance of allied subjects, the designer knowing only how to design.

Such narrowness must work against the development of sound architectural forms and motives. Steel, to name the modern material of the widest use, has created opportunities for great originality in design, but what designer can make the most of these opportunities if he doesn't know the material, its strength and peculiarities? Such a one must continue the use of old forms in a manner that is now illogical.

A better knowledge of structural material than is now possessed by the average will also increase the opportunities for architectural design. It is most unfortunate that subjects which are crying out for esthetic handling, subjects such as bridges, factories, and warehouses, are so often handled by engineers alone. In this way many latent possibilities where our everyday surroundings might

be improved are totally lost. These problems are not confided to the architect, largely because the public's opinion of him and of his ability to handle them is not very high. It, therefore, behooves the profession to correct this condition and bring within the scope of its work these problems now largely given to the engineer.

While architecture has been defined as "the art of building beautifully," it ought to be amplified by the phrase "and constructing soundly," for though the esthetic effect resulting from a design is of great importance, the client is interested primarily in the actual structure, and its permanence and soundness will be the most important considerations to him. And, from a business point of view, the pleasing of the client is an important factor in a practice. The architect is employed not merely to prepare drawings (except in very unusual cases), but he is to produce a building of a thoroughly sound character and, unfortunately, in many cases the necessary knowledge is lacking. Of course, on large work consulting engineers may and should be called in to work in conjunction with the architect; but even then the best results cannot be obtained unless the latter can grasp the engineer's point of view and discuss with him the problems that arise.

In the smaller work very often the special structural knowledge is supplied by the manufacturers of building materials, and here again the result cannot be the best unless the architect possesses enough knowledge to check the work. Otherwise he is unable to know whether too much or too little material has been used; there may be a gross and expensive waste or the amount used may be dangerously small. Yet the responsibility of the result lies with the architect.

To be sure, it cannot be expected that the architect shall have the special education that is necessary for great engineering feats. The variety of subjects his profession requires him to understand and the scope of his activities preclude any highly cultivated knowledge along that special line.

Perhaps the most nearly ideal substitute for the architect-engineer is a partnership including an architectural engineer. With this scheme the constant contact with the work of the office will result in a sympathy and understanding of purpose which is essential to the best solution of problems, and which is not possible when outside assistance is called upon for special cases. However, such a specialized partnership is not practicable in the small practice, and so we again face the fact that the architect should have a better knowledge of building construction than is generally the case today.—*Exchange.*



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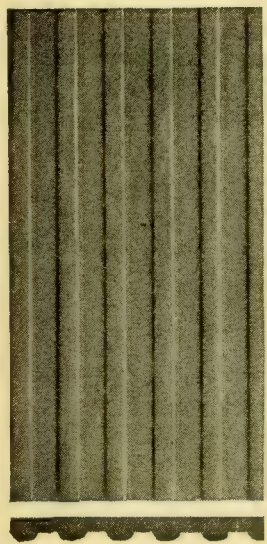
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 34

August 22, 1923

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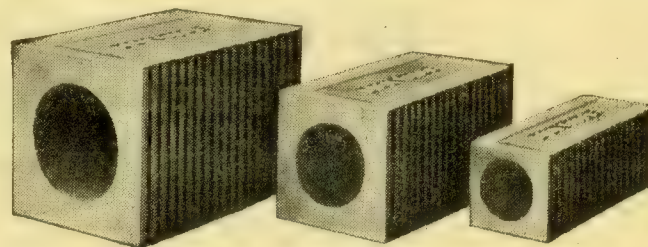
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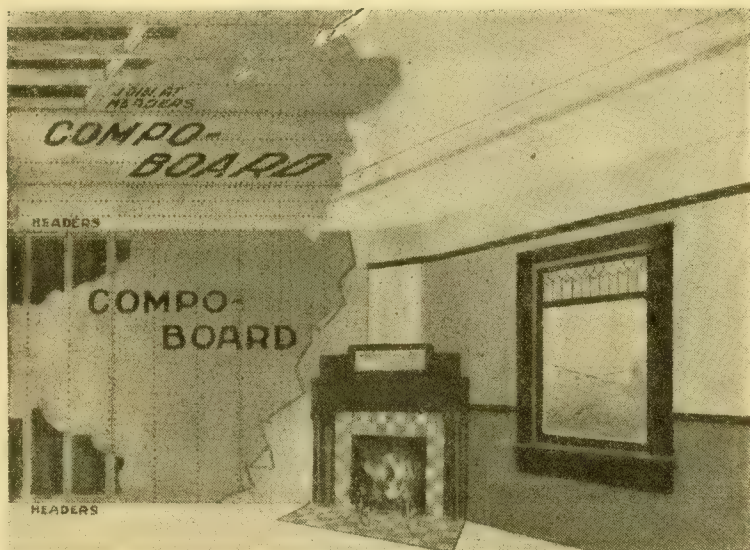
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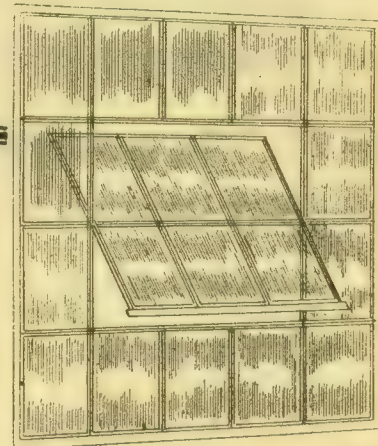
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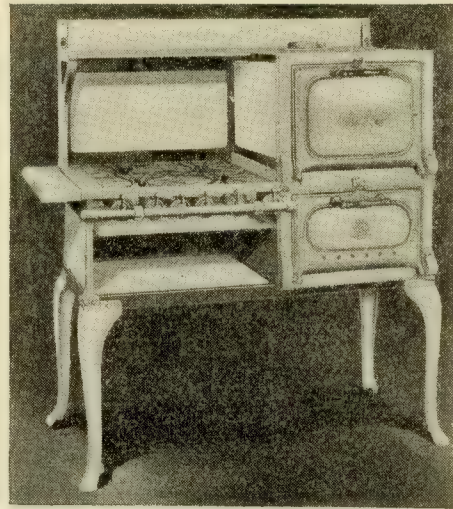
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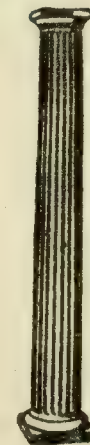
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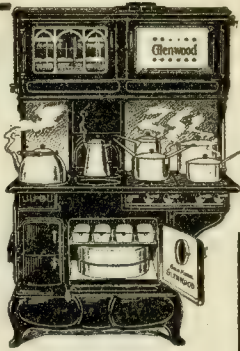


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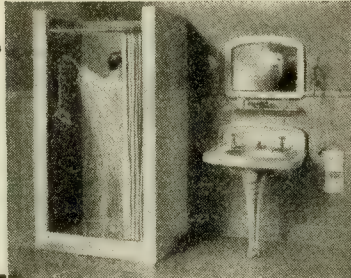
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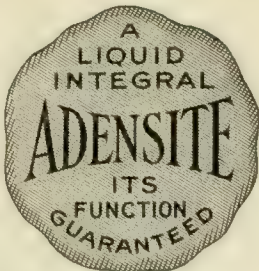
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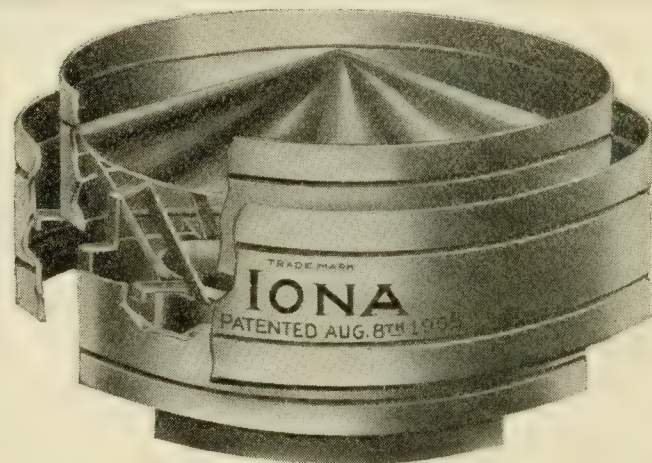
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 34

PHILADELPHIA  
August 22, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.  
PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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## As The Editor Sees It



THE Apprenticeship question is still of paramount importance to the building industry, and, in fact, to the country at large. Sane-minded, thoughtful business men no longer cry for unrestricted immigration, for all are convinced of the extreme inadvisability of throwing open the doors of the country to the hordes of undesirable aliens who would flock to these shores.

We have pondered a bit lately over the popularity of the white collar job as compared with the overall job. What is it that makes a perfectly healthy, active young fellow prefer to sit and add columns of figures with a monotony that promises no change in the future, rather than to join the creative ranks of the skilled worker. Only another one of the false values which have been created and fostered by the times in which we live. It is surely time that the joy of seeing something grow; the dignity of helping to create and produce the essentials of life should be inculcated in the minds of the youth of the country. No one who has seen a vacuous looking youth pounding an adding machine, and then looked at a boss carpenter solving his problems can question for a minute the superior intelligence demanded by the latter job, nor the greater opportunity for development and self-expression attached thereto.

At present the white collar men are being forced into overalls; let us hope

they will choose to stay there.

Milton V. O'Connell, in the *New York Herald* throws some light on this subject in his article, "White Collar Men Put on Blue Jumpers," reprinted herewith.

"From music to mortar, a trowel in place of a trombone—strange but true is this metamorphosis through which just one individual of the large mass of shifting employees has passed within the last few weeks. The name of the musician who now wields a trowel heavy with mortar, who sets a ragged brick in place as expertly as an old hand is not necessary for the purposes of this story.

The newspapers have been saying lately how the so-called "white collar man" was finding it harder and harder to keep his head above the rising tide of young women workers eager to take his job at lower rates and do it just as efficiently. On different pages of the same papers were stories to the effect that the building programs of this city and state, and in fact of all the forty-eight states, would be seriously jeopardized and delayed by the unusual shortage of skilled or unskilled labor. Manual labor was at a premium. It is yet for that matter. It is said that hundreds of "white collar men" took the hint. Today the ranks of the clerical armies are thinning, as far as the men are concerned, and they are shifting to what some people call real work. Hundreds of them are laying the

white collar aside for the brown army shirt and a pair of overalls or working trousers. The situation has brought to light a number of humorous changes such as the musician who now wields the trowel.

### *Will Soil Hands for Increase of Wages*

Investigation has shown the exodus of white collar men to be far more general than had been supposed. At every one of the large schools, private or public, where men can take courses in manual labor or mechanical work the same story was told—that recently they had received large numbers of applications from men who are of a different type from their usual run of students. The men who were applying were not drifters, not men who had no work but men who were awake to the realization that they must change from an overcrowded profession to the kind of work which was in demand and was better paid for.

There are a number of large industrial and mechanical schools in New York and among these one of the largest is that maintained by the Y. M. C. A. at 139 West Fifty-sixth street. There, in an old loft building, a dozen brick chimneys are built and torn down daily; five or six beautiful tile floors are laid and ripped up, and the walls and ceilings are given a good plastering several times every twenty-four hours. They haven't room enough there for the number of men who want to learn how to set brick

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in the proper manner. Why? Well, bricklaying is paying about \$12 a day now!

Among the record cards is one of "John W." The school requires that the name be anonymous, but the fact remains that a few weeks ago John W. was wielding the long handled baker's wooden spade in a stuffy flour dusted cellar at unearthly hours in the morning. For that he got \$18 a week and it was made clear to him that his job could be filled any day. Then he talked with a friend who had just cashed in for a week's work in the building lines who showed him an envelope that read \$85. A short talk—and enrollment followed in the school where he would learn how to make his envelope read likewise.

Then, also in the bricklaying class is "Alfred J." Alfred was really a "white collar man." The baker's case was cited herein merely as an instance where the professions were considerably remote. Alfred was the snappiest shipping clerk that "X-Y-Z & Company" ever had. He had been with the company for five years and was drawing down \$21 a week. He happened to look at the scale of wages paid by the building contractors for ordinary laborers and then said a fond farewell to his shipping department. He is studying the angles of bricklaying and it is said that in the shipping room of "X-Y-Z & Company" a sprightly bobbed hair girl directs the outgoing shipments.

Not all the trainees preparing for the assault on the building trade jobs are "white collar men." But the steady turning of others toward the manual labor work has had its tremendous influence on these white collar workers. In the classes in bricklaying, more than 30 per cent. of the applicants and students were clerks or office men previously. In the plastering class the percentage went five points higher, while the tile setting course showed that more than fifty per cent. of its students were converted "white collar men." Shorter hours and longer pay provide a good balance against the fact that they may be doing what some persons refer to as "menial and dirty work."

Others among the applicants for these courses are a number of former train men, elevator runners, clerks, an engraver here and there, a few painters (house as well as potrait) and odds and ends from virtually every business known. The prize classification, however, is held by the tile setting course—a former broker.

Whether "George L." was one of the many who went under when the distress signals of failure fluttered from so many mastheads in Wall Street a year ago or not, "George L." is there figuring out his neat little pattern of blue and white tiles, and some day may be seen hard at

work on a brand new restaurant in the course of construction or redecoration. "George L." is becoming quite adept, and he always did have a sort of artistic sixth sense which had never been cultivated and which comes in very nicely on this job.

#### *Former Butler Wields a Little Trowel*

Side by side with the ex-broker, wielding his little trowel with a particular dignity, stands Hubert. Hubert has "but-tled" for several families in the neighborhood of Park and Fifth avenues. Hubert declined to tell why he was trowelling instead of buttlng.

Edward M. Edward for years has been a gardener. He has tended every sort of garden from the elaborate landscape picture affairs along the Sound to a modest little patch in the rear of some olden time Washington Square mansion. Edward knows the trowel well. Not the mortar trowel but its first cousin. Gardeners were plentiful and laborers were not, so Edward wields the nearest thing he can find to his garden trowel. The instructor says he'll make a crackerjack mason one of these days!

Over in a corner where the tile pattern is set out, the man with the stooped shoulders is a former freight agent. He bent his shoulders over a desk in a small railroad freight station over in New Jersey not so long ago. Now they are bending again, but there seems to be a better angle or curve to that bend. He is puzzling out a problem far more interesting to him than a poorly scribbled illegible invoice or freight order. He is another recruit for the army of building labor.

Three weeks ago one of the pupils was washing windows in a Wall Street building strapped to the sill on the thirtieth floor. Now he is learning how to construct just such a ledge as that on which he stood. His neighbor in the plastering school, whose graduates will make about ten dollars a day, a week ago took orders in a side-arm lunchroom. Beyond him is a business manager who, until recently sat within a glass walled office and dictated to a snappy stenographer. "Reorganization" of the firm and subsequent "retrenchment" in help threw him out of employment. His final step was to the bricklaying school, where he is at least satisfied that he is going in the right direction.

So it goes—salesmen, brokers, cooks, truck drivers, bookkeepers, men stenographers and secretaries, not college graduates any of them, but men who rose from the ranks and could go no further in a crowded line of work and were forced out by the influx of women workers. They are all reverting to the manual labor. Many of them have been square pegs trying to fit into a round hole and

(Continued on Page 543)

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**Hotel**, Northwest Corner Broad and Locust streets, Philadelphia. Architects, H. E. Kennedy and Guy B. Johnson, 1324 Walnut street, Philadelphia. Owners, Louis H. Cahan & Son, Inc., 1324 Walnut street, Philadelphia. Stone, brick, steel, 25 stories, 86x220 feet, steam heat, electric light, metal lath, tile and marble work, hollow tile, elevators. Plans in progress.

**Residence and Garage**, Fifty-second and Wynnefield avenue, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Joseph Matz, 525 Sansom street, Philadelphia. Brick, 3 stories, 27x53 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Revised plans in progress. Architect will take bids in two weeks.

**Alms house (alts. and add.)**, Pulaski avenue and Rittenhouse street, Philadelphia. Architects, Walker & Carswell, 1001 Jefferson Building, Philadelphia. Owners, Germantown Alms house, care of Chairman of House Committee, Pulaski and Rittenhouse streets, Philadelphia. Concrete porches, 3 stories, circular fire escapes. Owners taking bids due August 28th. Deposit, \$20.00. Refund, \$20.00.

**Banking House and Office Building**, Southeast Corner Fifteenth and Walnut streets. Architect, undecided. Owners, Drexel & Co., Fifth and Chestnut streets, Philadelphia. Granite, details undecided. Preliminary plans in progress.

**Stores (6) and Apartments (alts. and add.)**, Kensington and Allegheny avenues. Architect, Edward Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, size irregular, steam heat, electric lighting, metal lath, flush bulks, slag roof, pine floors and composition floors. Plans in progress. Architect will take bids in two weeks.

**Stores and Apartments**, Southwest Corner Forty-fifth and Locust streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 3 stories, 18x80 feet, demolition, hot water heat, electric light, tile work, hollow metal skylights, store fixtures, bond,

flush bulks, metal lath, pine floors, slag roof. Plans in progress.

**Stores and Apartments**, 5101 Reno street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 3 stories, 18x70 feet, demolition, hot water heat, electric light, tile work, hollow metal skylight, store fixtures, bond, flush bulks, slag roof, pine floors, metal lath. Plans in progress.

**Store and Apartments**, 4603 Woodland avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick and steel, 3 stories, 16x45 feet, demolition, hot water heat, electric light, tile work, hollow metal skylight, store fixtures, bond, flush bulks, metal lath, pine floors, slag roof. Plans in progress.

**Stores and Apartments**, Northwest Corner Fiftieth and Parrish streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 3 stories, 18x60 feet, slag roof, pine floors, metal lath, demolition, hot water heat, electric light, tile work, hollow metal skylights, store fixtures, bond, flush bulks. Plans in progress.

**Police and Fire Station**, Rising Sun avenue and Benner street, \$90,000. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall. Brick, 2 stories, size undecided, steam heat, slag roof, electric lighting. Plans in progress.

**Store (alts.)**, 1310 Chestnut street, Philadelphia. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owner, George Miller, 1306 Chestnut street, Philadelphia. Lessee, A. M. Geuting, 1308 Chestnut street, Philadelphia. Doubling present store, steam heat, electric light, oak floors, store fixtures, metal bulks. Plans in progress.

**Residences (12) and Garages (12)**, Bala, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Moore, 539 South Fifty-second street, Philadelphia. Brick, stone and stucco, 2 sto-

ries, 22 feet 6 inches x 35 feet and 8x10 feet, garages, 19x22 feet, slate roof, oak floors, electric light, hot water heat, tile and marble work, cement work. Owner ready for sub-bids.

**Factory**, 1025-27 Cherry street, Philadelphia. Architect, private plans. Owners, R. W. Hartnetts Co., 1010 Race street, Philadelphia. Brick and steel, 3 stories and basement, 49x93 feet, steam heating, electric lighting, slag roof, maple floors, elevators, rolled steel sash, steel fire doors, iron work. J. N. Gill Const. Co., Otis Bldg., Phila., taking sub-bids.

**Garage and Service Station**, 2221-25 North Broad street, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Reinforced concrete, brick, granite, 3 stories, 151x70 feet (heating, plumbing, electric and elevators reserved), slag roof, cement floors, metal lath, tile work, rolled steel sash, galvanized iron skylights, rolled steel doors, bond, iron work, cold water painting. Revised plans in progress.

**School Building**, Greene street and School Lane, Germantown, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Friends' School of Germantown, on premises. Hollow tile, plaster, 2 stories, 30x100 feet, slate roof. Revised plans in progress.

**Residence (alts. and add.) and Garage**, 5860 Woodbine avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, C. B. Joy, 1420 Chestnut street, Philadelphia. Hollow tile and stucco, 2 stories, 13x19 feet, one story, 6x10 feet, garage, 27x29 feet, 1 story, steam heat, electric lighting, oak floors, shingle roof, tile work. Plans in progress. Architect will take bids in 3 weeks.

**Residences (2)**, Johnson street, Germantown, Philadelphia. Architect, L. S. Adams, 1705 Chestnut street, Philadelphia. Owner, Oswald Chew, Commercial Trust Building, Philadelphia. Stone, 2½ stories, hot water heat, electric lighting. Plans in progress. Too early for details.

**Office Building**, Southeast Corner Sixth and Ranstead streets, Philadelphia. Architect, not selected. Owner, J. Becher Anderson, 1524 Chestnut street, Philadelphia. Brick, steel, 12 stories, 50x72 feet, details undecided. Work contemplated.

**Residences (16)**, Durham street, West of Lincoln Drive, \$7,000 each. Owner, J. H. McClatchy, Land Title Building, Philadelphia. Brick, 2 stories, 16x35 feet, slag roof, hot water heat, electric, oak and pine floors, tile work. Owner will build.

**Factory**, Roberts and Pulaski avenue, Philadelphia. Architect, Emlen Bullock, Middle City Building, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Brick and steel, 2 stories, size irregular (plumbing, heating, electric reserved), slag roof, cement and pine floors, elevators, rolled steel sash,

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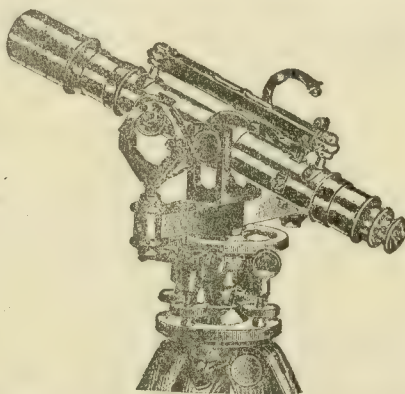
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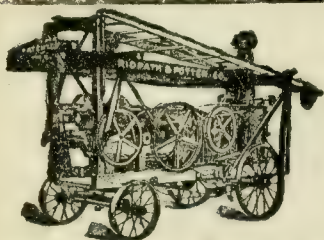
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fire and rolled steel doors, iron work. Architect taking bids due August 22nd.

**Store and Apartment (2)**, 737-39 South Fifth street, Philadelphia, \$9,000. Architect, H. H. Kline, Bulletin Building, Philadelphia. Owner, Jacob Herkowitz, 1511 South Fifty-second street, Philadelphia. Brick, 3 stories, 50x25 feet, hot water heat, slag roof, hardwood floors, metal lath, tile and marble work. Owner will build.

**Miscellaneous Work**, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall, Philadelphia. Sub and super structure Southwest Sewage Pumping Station, Fortieth Ward. Low bidder, U. G. I. Const. Co., Broad and Arch streets, \$174,132. Northeast Sewage Treatment Works, Wheatshaf and Richmond streets. Low bidder, M. and J. McHugh, 592 North Marke street, Philadelphia, \$76,331.

**Residence**, 406 East Brighthurst street, Philadelphia, \$4,000. Architect, private plans. Owner, John Roman, 414 East Brighthurst street, Philadelphia. Brick, 2 stories, 18x39 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

**Apartment House**, 1537 Diamond street, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, F. D. Fleming, 1334 Walnut street, Philadelphia. Plastering, carpentry and lumber, painting and glazing, oak floors, electric work, slag roof, hardware, hot water heating. Architect taking bids due as soon as possible.

**Extension Battery Plant**, Broad and Lehigh avenue, Philadelphia. Architect, Samuel F. Wagner, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Brick and steel, 1 story, 59x16 feet (heating, plumbing, electric reserved), asbestos roof, brick and cement floors, rolled steel sash, iron work. Architect taking bids due August 23rd.

**Store (alts.)**, 5620 Germantown avenue, Philadelphia. Architects, Magaziner, Eberhard & Harris, 608 Chestnut street. Owners, Messrs. Sacks Brothers, care of architect. Architects taking bids due August 21st. Bond, brick, cut stone, cement work, patching old floors, metal lath, plastering, metal lath, plastering, marble and tile work, plumbing, hardware, new tin roof, painting and glazing (bulk windows, marble and terrazzo, iron work separate bids).

**Agency Building and Garage**, Northeast Corner Venango and Twentieth street, Philadelphia. Architect, Louis L. Tieman, care of Fleischman Co., 693 Washington street, New York. Owners, The Fleischmann Co., 701 Washington street, New York. Reinforced concrete, brick, artificial stone, steel, 2 and 1 stories, 150x90 feet, steam heat, electric light, metal lath, tile and marble work, rolled steel

sash, galvanized iron skylights, fire and kalamein doors, bond, iron work, slag and asphalt built-up roof, concrete, maple and granolithic floors, elevators, plumbing, waterproofing. Architect taking bids due August 28th.

**Store and Residence**, Southeast Corner Twentieth and Rittenhouse streets. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, William Finkle, Twentieth and Locust streets, Philadelphia. Brick, 3 stories, 19x40 feet, slag roof, hardwood and linoleum floors, metal lath, tile and marble work, electric light, hot water heat. Plans in progress. Architect will take bids in one week.

**Residences (23)**, Forty-fourth and Columbia avenue, Philadelphia, \$121,500. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, J. Stewart Patton, 1132 Land Title Building, Philadelphia. Brick, 2 stories, 16x37 feet, hot water heating, electric lighting, slag roof, oak and yellow pine floors. Owner will build.

**Residence**, Boyer near Haines street, Philadelphia. Architect, private plans. Owner, Peter W. Deacon, 906 East Cheltenham avenue, Philadelphia. Stone, 2½ stories, 40x22 feet and 33x15 feet, tile roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Owner taking bids.

**Residences (41)**, Marvine street, North Olney avenue, Philadelphia, \$7,000 each. **Residences (4)**, Chew, Marvine and Olney streets, Philadelphia, \$8,000 each. Architect, private plans. Owner, Harry P. Collins, 230 North Fifty-third street, Philadelphia. Slag roof, hot water heat, electric work, oak and pine floors. Brick, 2 stories, 16x27 feet, 13x13 feet, 16x48 feet. Owner will build.

**Residences (12)**, B and Cornwall streets, Philadelphia, \$66,000. **Residences (3)**, B and Westmoreland streets, Philadelphia, \$21,000. **Residences (1)**, Rosehill and Cornwall streets, Philadelphia, \$5,500. Architect, private plans. Owner, James A. Brady, 3514 Malta street, Philadelphia. Brick, 2 stories, 16x52 feet, 16x40 feet, 16x25 feet, 16x36 feet, hot water heat, electric light, slag roof, oak and pine floors. Owner will build.

**Garage**, 1206-08 North Front street, Philadelphia, \$10,000. Architect, D. J. Pappano, Thirteenth and Reese, Philadelphia. Owners, Federal Const. & Engr. Co., 1240 Reed street, Philadelphia. Brick, 2 stories, 40x120 feet, slag roof, steam heat, electric light, cement floors. Owner will build.

**Residences (6)**, Highland avenue, West of Shawnee street, Philadelphia, \$8,000 each. Architect, private plans. Owner, Joseph T. Phister, 106 West Highland avenue, Philadelphia. Stone, brick, 2 stories, 16x37 feet, slate roof, hot water heat, electric, oak and pine floors, tile work. Owner will build.

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Wingohocking street, Philadelphia, \$2,100. Architect, private plans. Owners, American Pile Fibre Co., on premises. Stone, 1 story, 18x26 feet, slag roof, pine floors. Owner will build.

**Garage**, West side Howard street, South Rockland street, Philadelphia, \$3,500. Architect, private plans. Owner, James Daly, 4801 Mascher street, Philadelphia. Brick, 1 story, 18x114 feet, slag roof, cement floors. Owner will build.

**Residence**, West side Blue Grass Road, North Grant street, Philadelphia, \$3,500. Architect, private plans. Owner, Thomas C. Copeland, Blue Grass avenue, Philadelphia. Frame, 1 story, 42x28½ feet, shingle roof, hot water heat, electric light, oak and yellow pine floors. Owner will build.

**Swimming Pool**, Thirty-second and Ridge avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, limestone, steel, 1 story, 136x94 feet, slag roof, concrete floors, waterproofing, terra cotta, bond, iron work. Low bidder, J. B. Kelly, 2315 Walnut street, Philadelphia, \$49,876, \$47,905, \$45,679. Plumbing, Charles E. McCoy Co., 18 North Nineteenth street, Philadelphia, \$4,764. Electric, Fred P. McCarthy, 4511 Lancaster avenue, Philadelphia, \$1,298, \$1,108.

**Hancock Playground**, Hancock and Jefferson streets, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Demolition, excavating, surfacing, concrete iron fence and gates, bond. Low bidders: C. A. Conan, 133 North Vodges street, Philadelphia, \$18,653; Beam Craven Co., 605 Market street, Philadelphia, \$18,895. Plumbing, J. Bugger, 2124 East Cumberland street, Philadelphia, \$978.

**Swimming Pool**, Hedge and Orthodox streets, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, 127x98 feet, 16x98 feet, slate and slag roof, concrete floors, bond, waterproofing, terra cotta, iron work. Low bidders: Monaghan & Losse, 3016 Chestnut street, Philadelphia, \$42,429, \$40,468; J. B. Kelly, 2315 Walnut street, Philadelphia, \$44,944, \$43,176. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$5,450. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$1,825, \$1,435.

**Store**, Fifteenth street, North Courtland street, Philadelphia, \$3,000. Architect, private plans. Owner, Thomas Hawkins, 4644 North Fifteenth street, Philadelphia. Brick, 1 story, 16x44 feet, slag roof, pine floors. Owners will build.

**Garage**, Sixty-seventh street, North Haverford avenue, Philadelphia, \$2,800. Architect,

private plans. Owner, Peter Defath, 6532 Haverford avenue, Philadelphia. Stone, 1 story, 33x60 feet, slate roof, cement floors. Owner will build.

**Police Station**, Fiftieth and Lancaster avenue, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Department of Public Safety, Bureau of Police, City Hall. Brick, cut stone, steel, limestone, 2 stories, slag roof, cement floors (heating, plumbing, electric and ventilators reserved), metal lath, tile and marble work, terrazzo, tin-lined doors, bond, floor hardener, iron stairs, waterproofing and damp-proofing, roof ventilators. Lowest bidders: W. R. Dougherty, 1610 Sansom street, Philadelphia, Item A1, \$78,724; A2, \$79,463; Item B1, \$75,891; B2, \$76,655; B3, \$76,228. Heating, C. J. McCarthy, 1723 Sansom street, Philadelphia, Item A1, \$3,838; A2, \$3,838; Item B1, \$3,838; B2, \$3,838. Plumbing, John Borden & Brothers, 637 North Nineteenth street, Philadelphia, Item A1, \$6,590; B1, \$6,390. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, Item A1, \$2,374; A2, \$2,374; Item B1, \$2,354; B2, \$2,354; B3, \$2,374. Ventilating, S. Faith Co., 2427 Pennsylvania avenue, Philadelphia, \$498.

**Residences (11)**, West side Algard street, North Benner street, Philadelphia, \$44,200. Architect, private plans. Owner, William K. De Victor, 818 Real Estate Trust Building, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hot water heat, electric work, oak and yellow pine floors. Owner will build.

**Residence**, North side Quince street, West of Tabor street, Philadelphia, \$4,500. Architect, private plans. Owner, Fritz Roschkalm, 7500 Bingham street, Philadelphia. Frame, 2 stories, 18x31 feet, shingle roof, electric work, oak and pine floors, pipeless heating. Owner will build.

**Residences (2)**, North side Buist avenue, West Eighty-second street, \$4,000 each. Architect, private plans. Owner, Lizzie Kramer, 8127 Buist avenue, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, electric work, oak and yellow pine floors, hot air heat. Owner will build.

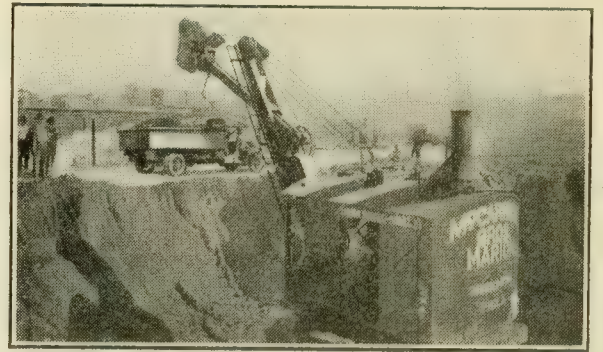
**Residence**, Southeast Corner Rhuan and Large streets, Philadelphia, \$8,000. Architect, private plans. Owner, Louis Ahlers, Jr., 4433 Salmon street, Philadelphia. Stone, 2 stories, 30x47 feet, slate roof, hot water heat, electric light, oak and pine floors. Owner will build.

**Storage**, Southwest Corner Almond and Luzerne streets, Philadelphia, \$8,000. Architect, private plans. Owners, C. R. Shoemaker Co., on premises. Corrugated iron roof, cement floors, iron work, 1 story, 50x100 feet. Owner will build.

**Residences (2)**, Ditman street, South Unruh street, Philadelphia, \$4,000 each. Architect, private plans. Owner, Lewi sLaib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, hot air heat, electric work, oak and pine floors. Owner will build.

**Residence**, Fox and Toronto streets, Philadelphia, \$5,000. Architect, private plans. Owner, E. Salvato, 3001 Bonsall street, Philadelphia. Brick, 2 stories, 26 x irregular, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

**Store and Residence (add.)**, 57 North Fifty-second street, Philadelphia, \$12,000. Archi-



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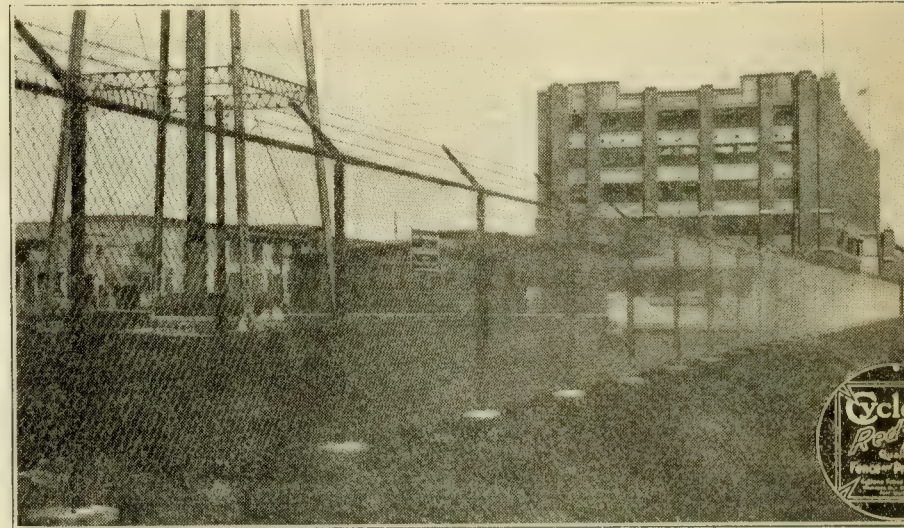
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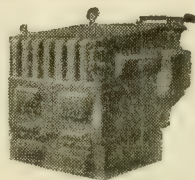
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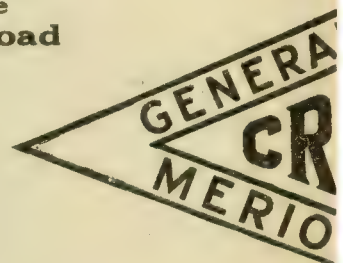
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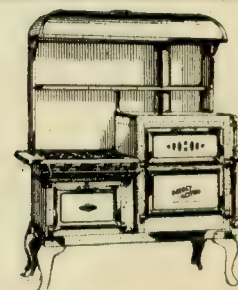
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tect, private plans. Owner, Louis S. Henn, 55 North Fifty-second street, Philadelphia. Brick, 2 stories, front 16x32 feet, rear 16x30 feet, slag roof, hot water heat, electric work, oak and pine floors. Owner will build.

**Store and Apartment (alts.),** Sixty-third and Lansdowne avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick work, concrete and cement work, metal ceilings, steam heating, (alts.) plumbing, electric work, carpentry and mill work, plastering. Architect taking bids due August 24th.

**Swimming Pool,** East Monument avenue, North Belmont avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Methodist Episcopal Orphanage, on premises. Reinforced concrete, 80x40x10 feet, monolithic finish, bond, pool equipment. Architects taking bids.

**Garage,** 32-34 North Allison street, Philadelphia. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, W. Ferry, Highland Park, Delaware County, Pa. Brick, 1 story, 50x100 feet, steam heat, electric light, slag roof, cement floors, hollow metal sash and skylights. Architects ready for bids.

**Residences (50),** Overington and Oakland avenue, Frankford, Pa. Architect, private plans. Owner, Carl A. Mayer, 140 Clarkson

street, Frankford, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owners taking sub-bids.

**Stores (8), Residences (32),** Limekiln Pike and Ogontz avenue, Philadelphia, \$5,500 each. Architect, private plans. Owners, W. T. Clark & Son, 1622 North Broad street, Philadelphia. Brick, 2 stories, 16x51 feet, 16x44 feet, hot water heat, electric light, slag roof, oak floors, tile work. Ready for sub-bids.

**Residence,** 433 West Johnson street, Germantown, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, Mrs. George W. Gormley, 1658 Lincoln avenue, Philadelphia. Brick, 2½ stories, 25x40 feet, wing 18x20 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due August 27th.

**Residence (alts. and add.),** Stenton avenue entrance, Chestnut Hill. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, Chestnut Hill, Pa. Stone, cut stone and stucco, 2½ stories and basement, 40x20 feet, vapor heat, metal lath, tile and marble work, bond, oak and pine floors, shingle roof, plumbing, dreadnought floors, allowance for hardware and electric work. Architect taking bids due August 28th.

**Garage and Piazza Enclosure to Residence,** 1114 Melrose avenue. Architect, Edwin A. Yeo, 225 South Sydenham street, Philadelphia.

Owner, William S. Yeo, care of architect. Stone, 1 story, 24x21 feet (plumbing, heating and electric work reserved), shingle roof, cement floors. Architect taking bids due August 24th.

**Bridge Work,** Delaware River, Philadelphia and Camden. Owners, Delaware River Bridge Joint Commission, J. M. Costello, secretary, 608 Widener Building, Philadelphia. Two main cables to be erected between Philadelphia anchorage (Delaware avenue, Race, Front and Summer streets), Camden anchorage (North of Pearl street and about 472 feet West of Delaware avenue in Camden), passing over main tower located in the Delaware River near pier head lines on Pennsylvania and New Jersey sides. Wire cables, suspension ropes, steel castings, bolts, ropes, structural steel, cast iron. Owners taking revised bids due September 19th, 1.30 P. M. (Standard time).

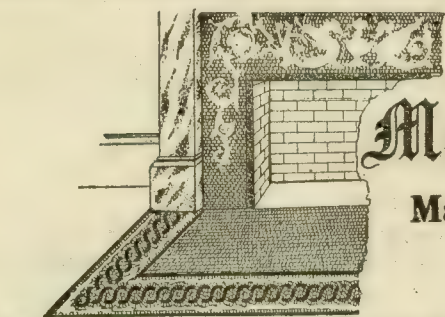
**Store and Residence (alts.),** South and Leithgow streets, Philadelphia, \$2,000. Architect, private plans. Owners, Goldberg & Einhorn, 414 South street, Philadelphia. General interior alterations. Contract awarded Max Sklar, 629 Pine street, Philadelphia.

**Restaurant (add.),** 233 South Thirteenth street, Philadelphia, \$2,000. Architect, private plans. Owner, Erman Farimore, 6925 Walnut street, Philadelphia. Brick, 1 story, 13x29 feet, slag roof, pile floors. Contract awarded Aug. Pastine, 1333 Wharton street, Philadelphia.

**Residence,** 6625 Upland street, Philadelphia, \$4,500. Architect, private plans. Owner, John W. Hollingsworth, 6610 Upland street, Philadelphia. Brick, 2 stories (16x50 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.

**Residence,** Tabor Road, South St. Vincent street, Philadelphia, \$4,500. Architect, private plans. Owner, Richard Peterson, 2215 West Berks street, Philadelphia. Frame, 2 stories, 24x36 feet, shingle roof, hot water heat, oak and pine floors, electric work. Owner will build.

**Residences (2),** Unruh street, West Bingham street, Philadelphia, \$4,300 each. Architect, private plans. Owner, William M. Benner, 4326 North Fourth street, Philadelphia. Stone and brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light, oak and pine floors. Owner will build.



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# Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Warehouse and Refinery (add.),** Delaware and Shackamaxon street, Philadelphia, \$500,000. Architect, private plans. Owners, Pennsylvania Sugar Co., care of D. Guteleben, on premises. Concrete, steel, 6 stories and basement, 90x200 feet (steel, pile drums and sprinklers reserved), electric lighting, steam heat, built up roof, cement floors, elevators, rolled steel sash, fire doors, waterproofing and dampproofing. Contract awarded O'Meara Const. Co., 228 South Warnock street, Philadelphia.

**Residence,** Claridge, North of Shelmire street, Philadelphia. Architect, J. J. Carroll, 1619 Chestnut street, Philadelphia. Owner, W. Vandergrift, care of architect. Frame, 2 stories, 20x40 feet, hot water heat, electric light, shingle roof, hardwood floors, tile work. Contract awarded to Cecil Hodgins, 4610 B street, Philadelphia.

**Residence (alts. into Apartments),** 220 West Cheltenham avenue, Philadelphia, \$14,000. Architects, Ritter & Shay, North American Building, Philadelphia. Owner, Dr. W. L. Roberts, on premises. Stone, hot water heat, electric light, tile work, plastering, painting and glazing, carpentry and mill work, ornamental iron work. Contract awarded to S. Harting & Son, 20 East Johnson street, Philadelphia.

**Addition,** 608 South Water street, Philadelphia, \$3,500. Architect, private plans. Owner, John Cassidy, 20 South street, Philadelphia. Brick, third floor, 27x60 feet, 11x32 feet, pine floors, slag roof. Contract awarded T. E. Bissi, 744 South Sixth street, Philadelphia.

**Church (alts.),** Ridge avenue, South of Port Royal avenue, Philadelphia, \$2,500. Owners, Roxborough Presbyterian Church, on premises. General interior alterations. Contract awarded A. Wilkinson, Harmon Road, Roxborough, Philadelphia.

**Garage (alts.),** 10-12 South Thirty-ninth street, Philadelphia, \$2,500. Architect, private plans. Owner, P. E. Cooper, 8 South Thirty-ninth street, Philadelphia. Carpentry and mill work, cement work. Contract awarded George Carr, 5532 Harmer street, Philadelphia.

**Store (alts.),** 3611 North Broad street, Philadelphia, \$2,500. Architect, private plans. Owner, Herman Schlatter, 3609 North Broad street, Philadelphia. Carpentry and mill work, painting and glazing, plastering. Contract awarded to Samuel R. Detwiler, 1724 North Camac street, Philadelphia.

**Store and Dwelling,** 240 Spruce street, Philadelphia, \$2,000. Architect, private plans. Owner, William Brown, on premises. Brick, 2 stories, 10x11 feet, slag roof, pine floors. Contract awarded W. K. Hollwell, 2113 South Lee street, Philadelphia.

**Club (alts.),** 1500 North Twenty-fifth street, Philadelphia, \$2,000. Architect, private plans. Owner, Harry Goodis, 926 West Girard avenue, Philadelphia. Carpentry and mill work, painting and glazing. Contract awarded to Marcus & Machman, 924 West Girard avenue.

**Office Building (alts.),** 215 South Broad street, Philadelphia, \$2,000. Architect, private plans. Owners, Heymann & Brothers, agents, on premises. General interior alterations. Contract awarded to John Schnabel, 707 Denckla Building, Philadelphia.

**Store (alts.),** 1120 Jefferson street, Philadelphia, \$2,400. Owner, L. Musper, on premises. General interior alterations. Contract awarded to Jacob Sklar, 1613 North Thirtieth street, Philadelphia.

**Garage (add.),** 1125 Leopard street, Philadelphia, \$2,000. Architect, private plans. Owner, Charles H. Oertle, 1137 Dunton street, Philadelphia. Brick, 1 story, 18x18 feet, slag roof, cement floors. Contract awarded W. J. Vanderstine, 35 West Wildey street, Philadelphia.

**Shop and Garage (add. and alt.),** 2615-17 Christian street, Philadelphia, \$6,000. Architect, private plans. Owner, Frank Schrader, 2505 Christian street, Philadelphia. Brick, 1 story, 32x71 feet, slag roof, electric work, cement floors. Contract awarded James Cunningham, 2615 Christian street, Philadelphia.

**Nurses' Home (alts.),** 710-14 South Colorado street, Philadelphia, \$6,000. Architect, private plans. Owners, Children's Hospital, Eighteenth and Bainbridge streets, Philadelphia. Carpentry and mill work, painting and glazing, plastering, cement. Contract awarded to A. B. Kister, 1204 Chancellor street, Philadelphia.

**Garage,** 41 East Chestnut avenue, Philadelphia, \$5,000. Architect, private plans. Owner, W. Johnson, 1333 Wingohocking avenue, Philadelphia. Including alts. to dwelling, stone, 1 story, 19x25 feet, slate roof, electric light, cement floors. Contract awarded to Ralph C. Borthwick, 6511 Woodstock street.

**Residence,** Waymouth street, North of Sentner street, Philadelphia, \$5,000. Architect, private plans. Owner, H. Kiley, 311 Fitzwater street, Philadelphia. Frame, 2 stories, 16x40 feet, shingle roof, hot water heat, electric light, oak and yellow pine floors. Contract awarded to F. P. Hampf, Roslyn, Pa.

**Tank Tower and Tank,** Northwest Corner Fourth and Race streets, Philadelphia, \$4,200. Architect, private plans. Owners, Stephen F. Whitman Co., on premises. Steel tank and tower, 30,000 gallons. Contract awarded to Pittsburgh-Des Moines Steel Co., New York.

**Church (alts.),** Fourth and Walton streets, Philadelphia, \$4,500. Architect, Charles F. Schaefer, 11 South Sixteenth street, Philadelphia. Owners, St. Casimir's Church, Rev. J. J. Kaulakis, 324 Wharton street, Philadelphia. General alterations. Contract awarded to S. B. Cerruti, 215 South Second street, Philadelphia.

**Store (alts. and add.),** 2507 South Broad street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, J. H. Myers, 1336 Porter street, Philadelphia. Brick and steel, 1 story, 18x60 feet (heating, plumbing and electrical reserved), tile and marble work, slag roof, metal bulks, metal ceilings. Contract awarded I. Negin, 2440 South Reese street, Philadelphia.

**Office Building (alts. and add.),** 221 South Seventeenth street, Philadelphia. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owners, Kershaw & Crawl, 5251 Chestnut street, Philadelphia. General alterations, steam heat, electric light, metal lath, tile and marble work, slag roof, oak floors. Contract awarded to George Sherm & Son, 709 South Fifty-ninth street, Philadelphia.

**Building (alts. and add.),** 908-10-12 Ridge avenue, Philadelphia. Architect, private plans. Owners, Consumers' and Producers' Bank, 927 Chestnut street, Philadelphia. Steam heat, electric lighting, metal lath, plastering, cement work, plumbing, painting and glazing. Contract awarded to E. E. Hollenback, 1804 Brandywine street, Philadelphia.

**Alterations,** 219 South Broad street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, W. M. Adams Argood Chocolate Co., on premises. General alterations, mill work and carpentry, plastering. Contract awarded Kergides & Pappas Co., 926 Locust street, Philadelphia.

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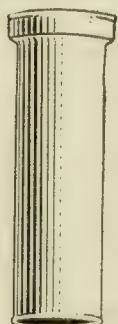
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**Store (alts.),** 2300 South street, Philadelphia, \$18,000. Architect, private plans. Owner, Mary Hub, 22 West Cheltenham avenue, Philadelphia. Carpentry and mill work, plastering, brick work, painting and glazing, metal lath, tile work, hot water heat, electric light. Contract awarded to Carl Muller, Bourse Building, Philadelphia.

**Offices,** 1922 Spruce street, Philadelphia. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, Dr. Nathan Blumberg, 708 Pine street, Philadelphia. New interior, partitions, plastering, painting and glazing, oak floors. Contract awarded F. G. English & Son, 1610 North Carlisle street.

**Subway Construction,** Contract No. 207, Philadelphia, \$1,198,555. Architect, private plans. Owners, Department of Transit, W. F. Twining, 1221 Chestnut street, Philadelphia. Contract awarded to Keystone State Const. Co., 210 South Thirteenth street.

**Residence,** 6906 Lincoln Drive, Philadelphia, \$25,000. Architect, Renold Heebner, Norristown, Pa. Owner, Henry D. Dietrich, Reading, Pa. Stone, steam heat, 3 stories, 40x28 feet, 2 stories, 14x12 feet, tile work, hardwood floors. Contract awarded to Eugene Raymond, Jr., 636 Commercial Trust Building.

**Store,** 1313 Vine street, Philadelphia, \$7,400. Architect, private plans. Owner, S. Mignogna, 205 North Thirteenth street, Philadelphia. Brick, 2 stories, 15x80 feet, slag roof, electric work, pine floors, steam heat. Contract awarded D. A. Pacific, 160 North Simpson street, Philadelphia.

**Store,** 3319 North Broad street, Philadelphia, \$25,000. Architect, private plans. Own-

er, George E. Nohl, 2352 North Thirteenth street, Philadelphia. Brick, 2 stories, 25x60 feet, 25x92 feet, slag roof, pine floors, hot water heat, electric light, plate glass. Contract awarded to Scunci & Nacrame, 2640 South Twelfth street, Philadelphia.

**Store and Dwelling (alts.),** 268 South Twentieth street, Philadelphia, \$6,000. Architect, private plans. Owner, M. J. Callahan, 3924 Market street, Philadelphia. Carpentry and mill work, painting and glazing, plastering. Contract awarded to Edward S. Collins, 325 Budd street, Philadelphia.

**Office and Store,** 1312 Walnut street, Philadelphia, \$4,000. Architect, private plans. Owners, Engle Gowns Shop, on premises. Brick, 1 story, 14x40 feet, slag roof, pine floors. Contract awarded to Roydhouse Arey Co., 112 North Broad street.

**Garage,** 5915 Jackson street, Philadelphia, \$3,500. Architect, private plans. Owner, Ida R. Nonneviller, on premises. Brick, 1 story, 90x20 feet, slag roof, cement floors. Contract awarded to H. Shallcross, Gratersford, Pa.

**Residence (add.),** 804 South Forty-ninth street, Philadelphia, \$3,000. Architect, private plans. Owner, E. E. Bratton, 416 South Forty-first street, Philadelphia. Brick, 1 story, 14x25 feet, 14x20 feet, slag roof, pine floors. Contract awarded to Bratton Co., 416 South Forty-first street, Philadelphia.

**Office and Residence (add. and alt.),** 1614 Locust street, Philadelphia, \$2,500. Architect, J. E. Bullock, 34 South Seventeenth street, Philadelphia. Owners, Central Philadelphia Realty Co., on premises. Brick, 2 stories, 10x5 feet 5 inches, slag roof, pine floors. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Store,** 1107 Walnut street, Philadelphia, \$18,000. Architect, private plans. Owners, Walnut Street Realty Co., 1201 Walnut street, Philadelphia. Brick, 2 stories, 40x100 feet, slag roof, hot water heat, electric light, pine floors, tile work. Contract awarded Charles Litman, 2438 South Forty-second street, Philadelphia.

**Garage,** 1214-16 North Twenty-sixth street, Philadelphia, \$22,000. Architects, Frank C. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Public Ledger Co.,

Sixth and Chestnut streets, Philadelphia. Brick, 2 stories, 39x90 feet, slag roof, steam heat, electric light, cement floors, steel sash. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia.

**Office Building (alts.),** 218-22 Walnut street, Philadelphia, \$15,000. Architect, private plans. Owner, Lawrence Appleton, 215 Walnut street, Philadelphia. New stairway, lower floors, carpentry and mill work, new store front, brick, plastering, metal bulks, plate glass, metal lath. Contract awarded to Lockhart & Simon, 1524 Chestnut street, Philadelphia.

**Garage,** Cemetery Lane, North of Chester avenue, Philadelphia, \$15,000. Architect, private plans. Owner, F. J. Nardy, 6031 Ellsworth street, Philadelphia. Brick, 1 story, 84x210 feet, slag roof, steam heat, electric work, cement floors, steel sash. Contract awarded Woodland Const. Co., 5925 Woodland avenue.

**Store and Dwelling (add.),** 5439 Germantown avenue, Philadelphia, \$9,000. Architect, private plans. Owner, N. Johnson, on premises. Brick, 1 story, 24x25 feet, slag roof, hot water heat, electric work, oak and pine floors. Contract awarded John Roman, 414 East Brighthurst street, Philadelphia.

**Residence,** Lawnton street, North Fairhorn street, Philadelphia, \$6,800. Architect, private plans. Owner, James F. Stewart, Baker and Dupont streets, Philadelphia. Frame, 2 stories, 26x46 feet, shingle roof, hardwood and pine floors, hot air heat, electric work. Contract awarded W. McCauley, 4319 Terrace street, Philadelphia.

**Store (alts.),** 808-10 Chestnut street, Philadelphia, \$6,000. Architect, Max Bernhardt, 721 Walnut street, Philadelphia. Owner, P. B. White, 808 Chestnut street, Philadelphia. Metal bulks, windows, electric work, plate glass, carpentry and mill work. Contract awarded to George H. Evans, Inc., 105 North Thirteenth street, Philadelphia.

**Dwelling and Store (alts.),** Fifty-fifth and Media avenue, Philadelphia, \$3,200. Architect, private plans. Owner, M. Siegelbaum, on premises. General interior alterations, garage, 1 story, brick, 14x16 feet. Contract awarded S. Yudofsky, 2023 South Eighth street, Philadelphia.

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## PENNSYLVANIA

## Construction News

**Garage**, 5728 Tulip street, Philadelphia, \$2,500. Owner, C. Schmetz, on premises. Brick, 1 story, 52x30 feet, slag roof, cement floors. Contract awarded to Dom. Nicholette, 1216 Adams Court, Philadelphia.

**Garage and Shop**, 6021-23 Larchwood avenue, Philadelphia, \$4,000. Architect, private plans. Owner, J. W. Stott, 6023 Larchwood avenue, Philadelphia. Brick, 1 story, 18x24 feet, 46x16 feet, slag roof, cement floors. Contract awarded to L. W. Zell, Cardington, Pa.

**Garage**, 453-55 North American street, Philadelphia, \$4,500. Architect, private plans. Owner, Jacob Haeefe, on premises. Brick, 1 story, 20x32 feet, 38x39 feet, slag roof, electric work, cement floors. Contract awarded to I. A. Stoutenbergh, 452 North American street.

**Store and Residence (add.)**, Terrace and Roxboro streets, \$4,500. Architect, private plans. Owner, Anthony Glenlock, 4301 Terrace street, Philadelphia. Brick, 2 stories, 26x14 feet, slag roof, hot water heat, electric work, oak and pine floors. Contract awarded William McCauley, 4319 Terrace street, Philadelphia.

**Garage**, Northwest Corner Allen Lane, below Wissahickon avenue and Green street, Philadelphia, \$10,000. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, W. J. Faux, on premises. Stone, 2½ stories, 43x34 feet, slate and slag roof, cement floors, metal lath, bond. Contract awarded Stokes Brothers, 6723 Musgrave street, Philadelphia.

**Store (alts. and add.)**, 1225 Chestnut street, Philadelphia, \$25,000. Architect, L. C. Friedland, 505 Fifth avenue, New York. Owners, I. Miller Shoe Shop, 525 Fifth avenue, New York City. New marble front, steel and iron work, steam heat, electric work, plate glass, plumbing, carpentry and mill work (painting and cabinet work separate bids). Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

**Shop**, 247 North Juniper street, Philadelphia, \$2,400. Architect, private plans. Owner, A. T. Wiley, 1002 Lincoln Building, Philadelphia. Brick, 1 story, 15x64 feet, slag roof, pine floors. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

**Store and Apartments (alts. and add.)**, Southeast Corner Twenty-second and Bolton streets. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, Dr. W. L. Brandon, 2430 West Oxford street, Philadelphia. Brick, 3 stories, 66x15 feet, hot water heat, electric light, slag roof, composition and oak floors, tile work, metal ceiling, flush bulks. Contract awarded Reliable Const. Co., Sixteenth and Fairmount avenue, Philadelphia.

**Building (alts.)**, 1117-19 Chestnut street, Philadelphia, \$15,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard Estate, Lafayette Building, Philadelphia. Strengthening floors, carpentry, steel, plastering, painting, glazing, mill work, brick work, cement work, electric work, plumbing, steam heating. Contract awarded F. W. Van Loon Perry Building, Philadelphia.

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**Bank and Office Building**, St. Clair, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, St. Clair State Bank, St. Clair, Pa. Reinforced concrete, cut stone, brick, granite, steel, 3 stories and basement, 43x106 feet, steam heat, electric lighting, metal lath, marble work, composition roof, cement and yellow pine floors, hollow tile, galvanized iron skylights, hollow metal doors, bond, iron work, waterproofing. Architects taking bids due August 24th.

**Y. M. C. A.**, Norristown, Pa. Architects, Thomas, Martin & Kirkpatrick, 112 South Sixteenth street, Philadelphia. Owner, H. Severn Regar, president, Norristown Y. M. C. A. Brick, reinforced concrete, 1 and 2 stories, 115x50 feet (plumbing, heating, electric reserved), Barrett's Specification roof, cement, maple and composition floors, hollow tile, roof ventilators, waterproofing, iron work, bond, hollow metal doors, copper skylights, rolled steel sash, tile and marble work, metal lath. Architects taking bids due September 10th.

**Sunday School Building**, Drexel Hill, Delaware County, Pa. Architect, Herman Miller, Crozer Building, Philadelphia. Owners, Broad Street Methodist Memorial Church, Broad and Christian streets, Rev. Henry Hess, on premises. Stone, 1 story, 42x80 feet, hot water heat, electric light, tile and marble work, tile roof, oak floors. Architect taking sub-bids.

**Residence**, Parsons, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, T. Wilson Smith, Parsons, Pa. Stone and frame, 2½ stories, 32x38 feet, hot water heat, electric light, hardwood floors, slate or shingle roof, tile work. Plans completed. Owner ready for bids.

**Theatre**, Royersford, Pa. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owners, Coane & Pizer, care of architect. Brick and concrete, 1 story, 50x150 feet, steam heat, electric light, slag roof, composition floors, metal lath, tile work, fire doors. Plans in progress. Architect will take bids in three weeks.

**Residence**, Drexel Heights, Delaware County, Pa. Architect, private plans. Owner, F. D'Andrea, 168 North Robinson street, Philadelphia. Frame and stucco, 2½ stories, 24 feet 3 inches x 31 feet, asphalt shingle roof, oak and pine floors, hot water heat, electric lighting. Owner ready for general bids.

**Residence**, Ardmore, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, J. A. Moran, Lorraine street, Ardmore, Pa. Frame and stucco, 2½ stories, 28x34 feet, hot water heat, electric lighting, tile work, shingle roof, oak floors. Plans completed. Owner ready for bids.

**Store and Apartments (3)**, Ardmore, Pa. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, Joseph Mandes, Ardmore, Pa. Stone, 2 stories, 60x62 feet, hot water heat, electric light, slag roof, hardwood floors, plate glass. Owner will build.

**Locker House**, Edge Hill, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, North Hills Country Club, Edge Hill, Pa. Brick, hollow tile and stucco, and steel, 2 stories, 92x42 feet and 32x30 feet, John Mansville roof, cement floors, metal lath, tile and marble work, iron work. Architect taking bids August 27th.

**School**, Rosemont, Pa., \$80,000. Architect,

F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Thomas' Roman Catholic Church of Villa Nova, Pa., J. J. Hasson, rector, Rosemont, Pa. Brick, steel, terra cotta, 2 stories and basement, 50x150 feet, slate roof. Architect taking bids due August 28th.

**Apartment House**, Haverford, Pa. Architect, Roy Pratt, Bailey Building, Philadelphia. Owners, J. O. Const. Co., Bailey Building, Philadelphia. Hollow tile and stucco, 3 stories, 60x40 feet, steam or hot water heat, electric light, tile work, metal lath, oak and pine floors, slate roof, iron work, dumb waiters. Architect taking sub-bids.

**School**, Shenandoah Heights, West Mahoney Township, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahoney Township School Board, M. K. Coyle, secretary, Lost Creek, Pa. Brick, 1 story, 6 rooms, steam heat, electric light, pine floors, asbestos shingle roof. Owner taking bids.

**School**, Glen Lyon, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Newport Township School District, Stanley Scott, 137 Main street, Glen Lyon, Pa. Brick, stone, 2 stories and basement, 16 rooms. Plans in progress.

**House**, Wilkes-Barre, Pa. Architect, T. A. Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, H. M. Reist, Wilkes-Barre, Pa. Frame, 2 stories, 42x60 feet, electric light, tile work, shingle roof, pine floors. Plans in progress. Bids in one week.

**Residence (alts. and add.)**, 65 Well street, Wilkes-Barre, Pa. Architect, James McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Sam Finkelstein, 140 Lincoln street, Wilkes-Barre, Pa. Brick, 2 stories, 50x14 feet, steam heat, electric light, tile work, slate roof, hardwood floors. Plans in progress. Owner will take bids in one week.

**Residence (alts. and add.)**, South Washington avenue, Wilkes-Barre, Pa. Architect, James McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Dr. S. Hurwitz, Wilkes-Barre, Pa. Brick, 1 story, 17x22 feet, slag roof, electric light, tile work, hardwood floors, general alterations. Plans in progress. Architect taking bids in one week.

**Apartment Building (54)**, Kingston, Pa., \$250,000. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Kingston Manor Apartment Co., J. K. Stololes, 254 South Franklin street, Wilkes-Barre, Pa. Brick, 3 stories, 70x170 feet, steam heat, electric light, metal lath, tile and marble work, hollow tile, hardwood floors, slag roof. Plans in progress. Architect and owner will take bids in two weeks.

**Store (alts. and add.)**, York, Pa. Architects, Hamme & Whitman, City Bank Building, York, Pa. Owners, York Auto Supply Co., York, Pa. Brick, 1 story, 30x60 feet, slag roof, pine floors, electric light. Revised plans in progress.

**Residence (alts. and add.)**, Wilkes-Barre, Pa. Architect, R. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, David Cantor, Wilkes-Barre, Pa. Brick and stucco, 1 story, 50x32 feet, vapor heat, electric light, tile work, slag roof, hardwood floors. Plans in progress. Owner will take bids in a few days.

**School**, Luzerne, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre. Owners, Sacred Heart Parochial School, Rev. Toile, Luzerne, Pa. Brick, stone, frame and steel, 2 stories, 55x70 feet (heat



ing, electric and plumbing reserved), steam heat, electric light, tile work, rolled steel sash, metal ceilings, waterproofing, roof ventilators, pine floors, slag roof. Architects taking bids.

**Store**, 217 North Main street, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Peter Loenard, care of architect. Stone, 1 story, 60x70 feet, steam heat, electric light, composition floor, slag roof. Architect and owner taking bids.

**Market Building**, Carbondale, Pa. Engineer, E. G. Pump, 60 North Market street, Boston, Mass. Owners, Carbondale Beef Co., Carbondale, Pa. Reinforced concrete, steam heat, electric light, concrete floors. Architect taking bids due as soon as possible.

**Bank**, Manheim, Pa., \$94,000. Architects, Tilghman Moyer Co., 824 Hamilton street, Allentown, Pa. Owners, Manheim National Bank, care of J. O. Graybill, Manheim, Pa. Brick, structural steel, 1 story, 137x77 feet, vapor vacuum heat, electric light, metal lath, tile and marble work, rolled steel sash and skylights, tin-clad fire doors, vault, bronze, lighting fixtures, draperies, metal toilet partitions, ornamental terra cotta, hollow tile, linoleum floors, slag roof. Architects will build.

**Garage**, Nanticoke, Pa. Architect, G. Price, Miller Building, Scranton, Pa. Owners, Zigmond & Butkiewci, Nanticoke, Pa. Brick, 1 story, 24x70 feet, steam heat, electric light, slag roof, composition floors, rolled steel sash. Plans in progress.

**School**, Frackville, West Mahanoy Township, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahanoy Township School Board, M. K. Coyle, secretary, Lost Creek, Pa. Frame, 1 story, 4 rooms. Owners taking bids.

**Factory (add.)**, Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owners, care of architect. Brick, 2 stories. Too early for details.

**Factory**, Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Harvey Suess, Bethlehem, Pa. Reinforced concrete, 1 story and basement, 45x60 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Plans in progress.

**Garage**, Stroudsburg, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owners, Royal Auto Co., Mr. H. Wycoff, 136 Washington avenue, Stroudsburg, Pa. Brick, steel, castone, 1 story, 60x80 feet, slag roof, concrete floors, electric light. Plans in progress.

**Residence (double)**, Bethlehem, Pa. Architect, E. H. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, T. Graber, Bethlehem, Pa. Brick, 2½ stories, 40x34 feet, hot water heat, electric light, tile work, slate roof, hardwood floors. Plans in progress.

**Church (alts. and add.)**, North Fifth street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, First Brethren Church, care of Rev. Kolb, on premises. Brick, 1 story and basement, 25x35 feet, slate roof, pine floors, electric light. Plans in progress.

**Store and Apartment**, 111½ North Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, J. Judas, National Provision Co., Allentown, Pa. Brick, 3 stories, 30x80 feet, steam heat, electric light, slag roof, maple floors, tile work, plate glass, hollow metal skylights. Plans in progress. Architect will take bids in one week.

**School (add.)**, Neffsville, Lancaster County, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Neffsville School Board, E. Espenshade, secretary, 1040 North Duke street, Lancaster, Pa. Brick, cinder block, 1 story, 100x150 feet, composition roof,

hardwood floors (heating, plumbing and electric work reserved), roof ventilators, rolled steel skylights, iron work. Architect and owners taking bids.

**Residence and Garage**, Clarion, Pa. Architect, M. Evans, 10½ East Orange street, Lancaster, Pa. Owner, T. M. Arnold, care of architect. Hollow tile and stucco, 2½ stories, 120x120 feet, slate roof, hardwood floors, electric light, metal lath. Owner ready for bids.

**Residences (12)**, Lancaster, Pa. Architect, M. Evans, 10½ East Orange street, Lancaster, Pa. Owner, L. B. Trissner, Lancaster, Pa. Brick, 2 stories, 20x28 feet, hot air heat, electric light, slag roof, pine floors. Owner taking bids.

**Bank (alts. and add.)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Lancaster County Bank, care of architect. Brick, reinforced concrete, 1 story, 30x70 feet, composition roof, hardwood floors, electric light, rolled steel skylights, metal window guards. Architect taking bids due as soon as possible.

**Factory (add.)**, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consumers' Box Board & Paper Co., Lititz, Pa. Reinforced concrete, 1 story, 60x80 feet, slag roof, concrete floors, electric light, steel trusses. Plans in progress.

**Residence**, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Frank E. Hayes, care of architect. Brick, 2½ stories, 30x40 feet, hot air heat, electric light, slate roof, hardwood floors, tile work. Plans in progress.

**School**, Steelton, Pa. Architects, Johnston & Starr, Spooner Building, Harrisburg, Pa. Owners, St. Peter's Roman Catholic Church, Rev. L. Gladek, 395 South Second street, Steelton, Pa. Brick, 1 story and basement, 68x30 feet, composition roof, pine floors (heating, plumbing and electric work reserved). Architect taking revised bids due September 1st.

**Residence**, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owner, F. H. Dierman, 646 Cleveland avenue, York, Pa. Brick, 2½ stories, 26x39 feet, slate roof, hardwood floors, vacuum heat, electric light, tile work. Architect taking bids due August 16th.

**High School**, Morrisville, Bucks County, Pa. Architects, T. B. Stacklen, Morrisville, N. J., and P. L. Fowler Co., Trenton, N. J. Owners, Board of Education, Morrisville, Pa. Brick, cut stone, steel, 2 stories and basement, 167x45 feet, pine floors, cement tile roof (plumbing, heating and electric separate), metal lath, hollow tile, rolled steel sash, bond, iron stairs. Owners taking bids due August 26th.

**Residence**, Rydal, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Wayne Herkness, Land Title Building, Philadelphia. Stone, 2½ stories, 30x80 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Architect taking bids.

**Residences (10), Garages (10)**, Merion, Pa. Architect, private plans. Owner, William E. Hexamer, 939 Chestnut street, Philadelphia. Brick and steel, details undecided. Plans in progress. Owner will build.

**School**, Avalon, Pa., \$180,000. Architects, Maurice E. Kressley & Co., 13 North Fourth street, Harrisburg, Pa. Owners, Board of Education, Avalon, Pa., W. W. Otto, C. of C. Building, Pittsburgh, Pa. Brick, 2 stories and basement. Plans in progress.

**High School**, Ridgeway, Pa. Architects, Maurice E. Kressley & Co., 13 North Fourth street, Harrisburg, Pa. Owners, Board of Education of Ridgeway, A. L. Bell, president, Ridgeway, Pa. Brick and hollow tile, 2 stories and basement, 152x616 feet (heat-

ing, plumbing and electric reserved), slag roof. Owners taking bids due August 25th.

**Garage (public)**, Fifth and Green streets, Reading, Pa. Architect, H. G. Mohn, Church and Walnut streets, Mohnton, Pa. Owner, F. Hodges, Front and Chestnut streets, Reading, Pa. Brick, steel, 3 stories, 60x110 feet, steam heat, electric work, slag roof, cement floors, elevators. Owner ready for sub-bids.

**Factory**, Harrisburg, Pa. Architects, Maurice E. Kressley Co., 13 North Fourth street, Harrisburg, Pa. Owners, Collins Ice Cream Co., 41 North Thirteenth street, Harrisburg, Pa. Brick and concrete, 1 story and basement, 40x110 feet, slag roof, electric light. Architects ready for bids.

## Pennsylvania Contracts Awarded

**Tuberculosis Hospital Building**, West Mountain, Scranton, Pa. Architect, David H. Morgan, 426 Connell Building, Scranton, Pa. Owners, County of Lackawanna, Ransom Township, Scranton, Pa. Brick, concrete, cut stone, steel, 2 stories and basement, 97x46 feet (plumbing, heating and electric separate), slag roof, cement, yellow pine and composition floors, hollow tile, roof ventilators, damp-proofing, terra cotta, ornamental iron work, floor hardener, bond, rolled steel sash, tile and marble work, floor hardener, metal lath, steel lumber. Contract awarded to Sinclair & Griggs, Medical Arts Building, Philadelphia.

**Twin Residence**, Rydal, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, John Gilbert, care of architect. Hollow tile and frame and stucco, 2½ stories, 50x50 feet, hot water heat, electric light, shingle roof, oak and yellow pine floors, iron work. Contract awarded to E. Allen Reeves, Abington, Pa.

**Store and Apartment**, Nanticoke, Pa. Architect, George Price, Miller Bank Building, Scranton, Pa. Owner, Anthony Arrow, Nanticoke, Pa. Frame, 2 stories, 20x38 feet, shingle roof, pine floors, steam heat, electric lighting. Contract awarded to Frank Collins, 123 Loomis Dewey Park, Nanticoke, Pa.

**Hotel**, Carbondale, Pa. Architect, V. Russonello, Scranton Life Building, Scranton, Pa. Owner, care of architect. Brick, stucco, 3 stories, 30x46 feet, slag roof, pine floors, electric light. Contract awarded Mackle Const. Co., Scranton, Pa.

**Residence**, Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, A. A. Sweetser, Scranton, Pa. Hollow tile and stucco, 2½ stories, 32x34 feet, hot water heat, electric light, tile work, tile roof, hardwood floors. Contract awarded Fred Knee, 1030 Park avenue, Scranton, Pa.

**Residence**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Richard Howell, Bethlehem, Pa. Brick, cinder block, 2½ stories, 36x28 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Contract awarded F. F. Speck Const. Co., 51 Wall street, Bethlehem, Pa.

**Residence and Garage**, Churchville, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, Alex. Auerbach, care of architect. Hollow tile and stucco, 2½ stories, 60x35 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Contract awarded Frank E. Heston, Churchville, Pa.

**Church (alts.)**, Scranton, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, St. Mary's Greek Catholic Church, Scranton, Pa. Steel work, art glass, electric light, general interior work, ornamental plaster. Contract awarded to John Dobson, Wilkes-Barre, Pa.



**Residence**, Lancaster, Pa. Architect, H. Y. Shamb, Imperial Buildig, Lancaster, Pa. Owner, H. Ripple, Lancaster, Pa. Stone, 2½ stories, 30x30 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Contract awarded to W. Zook, 311 North Queen street, Lancaster, Pa.

## New Jersey Construction News

**Bridge**, Perth Amboy, N. J. Architect, private plans. Owners, New Jersey State Highway Commission, Trenton, N. J. Reinforced concrete viaduct, 1,536 feet, steel plate girder spans 1,536 feet, concrete piers, foundations with granite, 5,535 lineal feet of earth fill. Deposit, \$100 bond. Owners taking bids due September 11th, 12 M.

**High School**, North Wildwood, N. J. Architects, associate, H. Rex Stackhouse and Donahue & Fitzmaurice, 1120 Locust street, Philadelphia. Owners, School Board of Wildwood, care of T. D. Akarman, North Wildwood, N. J. Brick, steel, cut stone, 3 and 2 stories, 164x36 feet and 91x52 feet, asbestos built-up roof, cement and maple floors (heating, electric and plumbing reserved), metal lath, tile and marble work, rolled steel sash, hollow metal doors, bond, iron work and stairs, safety treads, hollow tile. Owners taking revised bids due August 30th.

**School**, West Main street, Moorestown, N. J. Architect, G. O. Lovatt, 420 Walnut street, Philadelphia. Owners, Our Lady of Good Council Roman Catholic Church, Rev. J. B. Hendrick, Moorestown, N. J. Stone, 1 story and basement, 55x90 feet, steam heat, electric light, slag roof, maple floors. Plans about completed. Architect will take bids in a few days.

**Office Building**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, Acme Rubber Co., Trenton, N. J. Brick, reinforced concrete, 2 stories, 40x80 feet, slag roof, electric light, hardwood floors, rolled steel and hollow metal sash, heating extension. Plans in progress.

**Theatre and Store**, Lambertville, N. J. Architect, W. Hankins, 39 East State street, Trenton, N. J. Owner, George L. Eyrk, care of architect. Brick, steel, reinforced concrete, fireproof, 2 stories, 40x172 feet, slag roof, concrete floors, hollow tile, roof ventilators, metal lath, electric light, tile and marble work, hollow metal sash and skylights, fire doors, iron work. Architect ready for bids.

**House**, Hill Top, Princeton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, William T. White, on premises. Frame, 2 stories, 28x20 feet, pipeless heat, electric light, shingle roof, pine floors. Architect sub-letting.

**Women's College**, New Brunswick, N. J., \$250,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, care of architects. Brick, steel, concrete, hollow tile, 2 stories and basement, 158x78 feet, slate roof, mastic and hardwood floors, hollow tile, roof ventilators (heating, plumbing and electric reserved), tile work, marble work, rolled steel sash and skylights, iron stairs. Architects ready for bids.

**Church**, West State street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, First Christian Science Church, care of Mrs. Bonham, West State street, Trenton, N. J. Brick and frame, 1 story, 84x42 feet, asbestos shingle roof, electric light, hardwood floors (heating, plumbing and electric reserved), tile work. Owners taking bids.

**Road Work**, Route No. 4, Sect. 20, Manasquan River, Sea Girt, Monmouth County, N. J. Architect, private plans. Owners, New Jersey State Highway Commission, Assembly Chamber, Trenton, N. J., A. L. Grover, Chief Clerk. Reinforced concrete, 39,389 square yards, 14,876 cubic yards excavating, bond. Owners taking bids due August 27th, 11 A. M. (Standard time).

**Road Work**, Route No. 13, Sect. 5, Trenton to Lawrenceville, Mercer County, N. J. Architect, private plans. Owners, New Jersey State Highway Commission, Assembly Chamber, Trenton, N. J., A. L. Grover, Chief Clerk. Excavation 15,000 cubic yards, concrete foundations 51,000 square yards, surface asphalt 50,000 square yards, concrete curbs 17,000 square yards, bond. Owners taking bids due August 27th, 11.15 A. M. (Standard time).

**Road Work**, Route 8, Sect. 4A, Charlottesburg-Newfoundland Road, Passaic and Morris Counties. Route 14, Sect. 9, Oceanview-Seaville Road, Cape May County, reinforced concrete paving and 2 small bridges. Route 16, Sect. 5, South Somerville-Woods Tavern Road, Somerset County, reinforced concrete paving, 3 small bridges and 6 small culverts. Owners, New Jersey State Highway Commission, Trenton, N. J., A. L. Grover, Chief Clerk, who are taking bids due August 20th.

## New Jersey Contracts Awarded

**Residence and Garage**, Atlantic City, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, D. Louis Blumberg, Atlantic City, N. J. Hollow tile and stucco, 2 stories, 45x35 feet, hot water heat, electric light, slate roof, hardwood and cement floors, tile work. Contract awarded to Alex. Nedelman, 400 Guarantee Trust Building, Atlantic City, N. J.

**New Store Front**, 941 Broadway, Camden, N. J., \$65,000. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Joseph Bertman, on premises. Cut stone, slag roof, oak floors, carpentry, mill work, brick work, painting, glazing, plastering, steel, inter-glass, tile and marble work (cut stone, electric work, window frames, fire insurance reserved). Contract awarded H. Fearn, 4402 Westville street, Camden, N. J.

## Delaware Construction News

**Road Work**, Wilmington, Del. Engineers, C. E. Grubb Co., Engineers' Public Building. Owners, State Highway Department, Dover, Del. Reconstructing 2.4 miles Lancaster Pike from Loveville to Hockessin; 0.91 mile Lancaster Pike, from Hockessin and extending to Pennsylvania State line; 1,100 feet road through village of Stanton.

**Grading and Paving**, Delaware. Engineer, C. D. Buck, Public Building, Wilmington, Del. Owners, State Highway Department, Dover, Del. Grading and paving 4.22 miles, Cont. C S 26, Clarksville to Bethany Beach; 11,500 cubic yards excavation, 6,100 cubic yards cement concrete pavement or slag cement concrete, etc.; 0.508 mile, Cont. C K 17, through Frederica, 1,200 cubic yards excavation, 50 tons broken stone base course, 890 cubic yards cement concrete pavement; highway, Cont. M 8; 120 feet temp. timber bridge, 10 feet wide, Seaford, Cont. 42 A. Owners taking bids due August 29th.

## Miscellaneous Construction News

**Residence (alts. and add.)**, Jamestown, R. I. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Dr. John Marshall, 1718 Pine street, Philadelphia. Stone, new porches, new fences, miscellaneous alterations. Plans in progress.

### Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Aug. 8, 1923.—Sealed Proposals will be opened in this office at 3 P. M., Sept. 5, 1923, for the construction of the United States Post Office at Waterloo, New York. The drawings contemplate a one-story and basement building, 75'x50', with brick facing and of non-fire-proof construction. Drawings and specifications may be obtained from the Custodian of the site at Waterloo, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 532)

were but partially successful. Now they have found something new which interests them. They have swallowed false pride, put on overalls and are looking forward to making more money than they ever did before.

Wm. H. Lee, architect, has moved from 32 S. 17th St., Philadelphia, to larger offices in the Schaff Building, 1505 Race St., Philadelphia.

John J. Carlin, architect, has opened new offices at 1619 Chestnut St., Philadelphia. Mr. Carlin was formerly in the Drexel Bldg., Phila.

## EARLY AND MODERN COLONIAL *Three Hundred Years Scarcely Changes Style*

There are many reasons why Colonial is a popular style with American home builders. Not only is it a type that builds at reasonable costs, but it breathes of human associations, of family ties, of fireside happiness. It possesses the spirit of the hearth.

When properly designed and built, Colonial produces a home of beauty. Colonial architecture, as we know it in this country, is an American interpretation of what in England is called "Georgian architecture." The English colonists, who immigrated to America in the early part of the 17th Century, and to whom we owe the Colonial home, were naturally influenced by Old World traditions.

While the English built their houses of stone, the Colonists built of wood, be-



cause wood was much more readily obtainable and was a more flexible and easily molded material. This accounts for the delightful grace and delicacy of Colonial details, the narrow dormers, the 12 lighted windows, the carefully molded cornices, slender columns, simple doorways, nicely proportioned balusters and newels, and fine forms of permanent furniture on the inside of the house.

The outstanding characteristic of the best Colonial work is delicacy. Without this delicacy it is seldom good Colonial.

Because of the unusual rectangular plan and lack of expensive gew-gaws, a Colonial house can be built inexpensively of any material. There are no wide overhanging roofs and meaningless details to increase building costs.

In the early Colonial homes the gables were frequently nothing more than single boards with, perhaps, a molding under the shingles. Dormers were always small and few in number. The front entrance doorway was always the focal point. Shutters were used at the windows, and were invariably painted to contrast with the house. These details of design have stood the test of hundreds of years, and we still find the Colonial satisfying as it is based on the principles of good design.

One of the principal architectural features, if the house be of two stories, is the stately stairway with slender balusters and newels exquisitely formed. Corner cupboards and china closets are used in the dining room, and there are nearly always one or two fireplaces, with a simple mantel design, usually of wood.

The Colonial house properly is a white one, inside and out. If you want to stick closely to tradition, you can have reds or yellows also.

Colonial, generally speaking, is a straightforward solution of an architectural problem, which usually results in a certain dignity because of its nicely spaced windows and studied details, and the very important consideration that apparently it never strives for effect.

Probably no current style of architecture offers the home builder so wide a selection of well turned and faithfully modeled details, interior finish and trim, as does Colonial, and the satisfying part of this is that most of the details are readily obtained from most lumber dealers' stock. This means a distinct lessening of building costs, because it eliminates the feature of "extras."—*The Small House.*

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

## ARCHITECTS AND CONTRACTORS

It is common to see the statement that the building industry is the second largest in the United States,—agriculture alone being greater. But that estimate is based on the consideration of the entire industry as a unit. As a matter of fact it is far from it. Indeed there is a wider gulf between architect and contractor and between the contractors themselves in the various trades, than there is between a farmer and a manufacturer of automatic machinery. This should not be so. The failure of the building industry to function co-operatively and harmoniously is not only unsatisfactory and costly to the various units which make up the industry, but results in great economic loss to the community.

It seems quite natural that the first move toward improving conditions in the building industry should come from the architects and the contractors. They are the originating and guiding elements in all building programs. The public gets its information and makes its decisions from them. They have much in common. And yet they do not understand each other. There is no doubt that many architects have a very poor opinion of contractors in general and on the other hand the contractors do a great deal of grumbling at the treatment accorded them by architects.

Here and there, in the large cities attempts have been made to unify the industry by the formation of building congresses. They have done much valuable work, but they encounter serious limitations because they are trying to harmonize too many conflicting elements at one time. Several national organizations of contractors and architects are getting together on matters of wide and general interest and they are doing good work. However, we believe that the most effective means of securing quick results and those which will be most directly helpful to the individual contractor and architect is by periodical state or sectional conferences between representatives of contractors' and architects' organizations.—*Associated Contractor.*

If you see a tall fellow ahead of the crowd,

A leader of men, marching fearless and proud,

And you know of a tale, whose mere telling aloud

Would cause his proud head to in anguish be bowed,

It's a pretty good plan to forget it.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

## STUCCO SHOULD ALWAYS BE PAINTED

Whenever stucco is used it should be painted whether on lath or masonry, says a writer in the *Washington State Architect*. In the best of stucco work there are hair cracks through which moisture can find its way. In cold weather this moisture freezes and gradually expands and forces the stucco out. Sooner or later large cracks will appear. All of this may be avoided by using two or three heavy coats of concrete paint. The paint fills up the minute cracks and prevents moisture from entering. The appearance of the stucco is very much improved also by the introduction of some color in the paint.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising or advertising from an emotional standpoint.—*Elbert Hubbard.*

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—*Thoreau.*



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....1310 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarriek Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## GRATES.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarriek Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service)

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co., Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F. & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard. ....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son. ....1015 Frankford Ave., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

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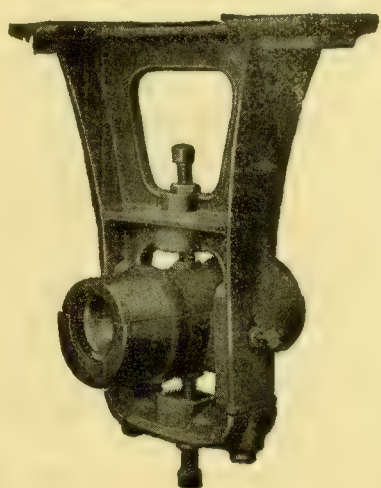
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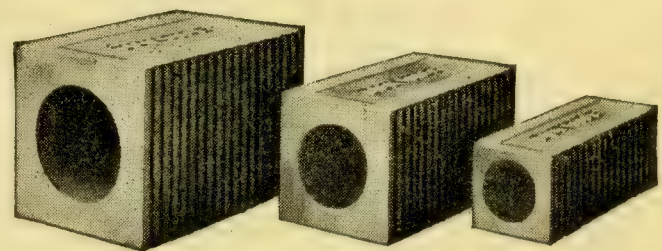
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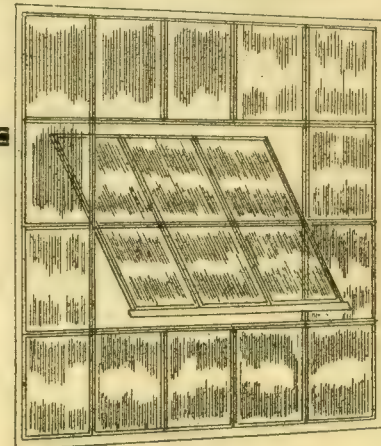
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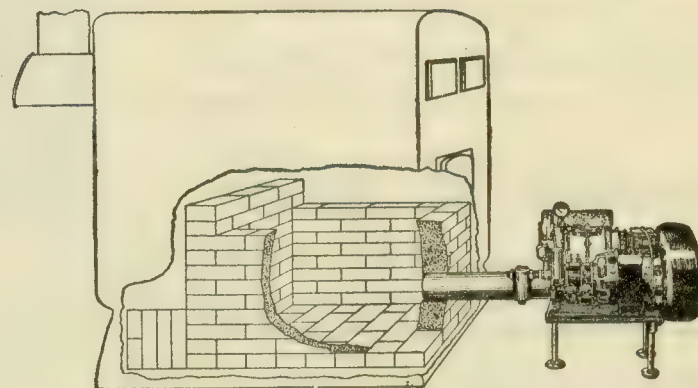
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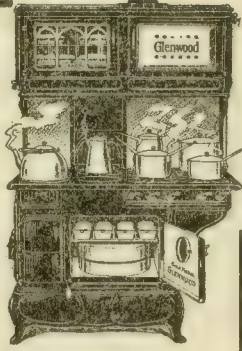


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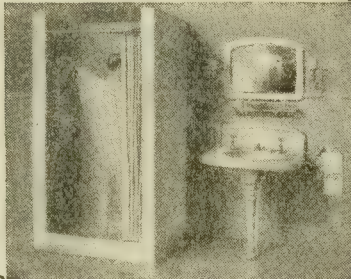
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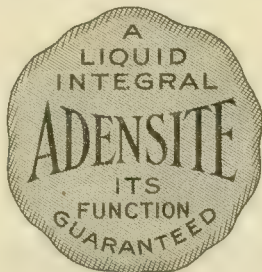
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
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VOLUME XXXVIII  
Number 35

PHILADELPHIA  
August 29, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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## As The Editor Sees It



### THE PUBLIC'S RELATION TO BUILDING

*New York Public Group Presents a Con-  
structive Report, the Result of its  
Labors, Since April 30, 1923*

No industry so important as the building industry at this time can be considered apart from the interests of the community, and therefore any attempt to deal with the problems arising must give heed not alone to labor and the employer, but to the public as well.

Any action taken without regarding the rights or views of all three groups tends to lessen participation in the industry by that element whose interest is unfavorably affected. This leads to the natural development of corrective conditions more favorable to renewed participation by the disturbed group, and therefore results in the continued co-operation of all the essential factors.

But while the three groups are interdependent, for many reasons the interest of the public must be recognized as paramount. Builders and laborers recognize that the industry thrives or languishes as the buyer, that is, the public, enters or neglects the building field.

Living costs for the people as a whole are largely affected by the cost of building, not alone through rents which reflect the cost of homes, through the cost of manufactured articles which must bear the cost of the factories, the shops, and the means of storage and transportation,

but also through the immense demand for construction materials which is the chief support of today's business activity, and the increase of income to the government and the individual through the improvements which an active industry produces.

Success, that is, prosperity in the industry, requires control and co-operation instead of the assertion of the claims of one group against the others, and better conditions for all cannot be secured merely through arrangements between labor and employer, which are much discussed, but require as well as an understanding on the part of the public whose interest is most important, though often disregarded.

Because of their recognition of these principles a group of New York builders, on April 30, 1923, called a meeting of a large number of architects, owners, builders, and representatives of loaning institutions to present information regarding the serious situation then existing or developing in the building industry. The consultation and advice of those present was desired by the builders, and, at the close of the meeting, the Committee of the Public Group of the Building Industry was appointed for the purpose of suggesting further action.

The committee, which included architects, builders, representatives of the loaning institutions, and other business men, was later strengthened by the addi-

tion of economists and social welfare workers, and was placed in what was thought to be a less partisan position by the voluntary resignation of the builders. Since that time meetings of the committee have been held for the purpose of consulting with the Building Trades' Council of New York City, Long Island, and vicinity; the New York Building Trades' Council; the New York Executive committee of the bricklayers; and also with a committee from the Mason Builders' Association.

The committee has also been cognizant of the work of the New York section of the National Congress of the Building and Construction Industry, an organization which is working for the betterment of conditions in the building industry. Its membership includes representatives of labor, capital, management, the professions, and the public. In addition to its work in developing an apprenticeship plan, and its study of the problems of seasonal employment, both of which will later be mentioned in some detail, the Congress has established a code of fair practices in the building industry and is supporting this through a committee on codes.

It now has in course of organization a branch of the Arbitration Society of America, which will be established as a court for the arbitration of questions in construction that would be otherwise judicable. As a permanent means

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of improving conditions in the industry the Congress seems to present for the time the most comprehensive plan, one which the whole industry and the public ought to support.

The problem immediately presented for the attention of the committee was that of labor wage demands and, more especially, the action of the bricklayers in withdrawing from certain building operations of this city. During the period of the committee's work these immediate labor difficulties have been temporarily adjusted, and a settlement of the bricklayers' demands has been reported. The emergency pressure, as far as it relates to terms of employment, has been lessened and, in this respect, the situation which led to the assembling of the committee has been changed.

The fundamental conditions, from the standpoint of the public group, however, have not been improved. The number of workmen has not been increased sufficiently to make possible the prompt execution of work urgently needed, such as the school buildings of the city. The daily output or production by the individual workmen has not been increased. It is reported to be much below that of some years ago; prices of materials have changed—some are higher, and some lower. Generally the cost of building has increased and the situation gives no promise of stability for the future except through a lessening of the demand for buildings, a movement which already appears to be under way.

Fluctuations in the building industry result in hardship and in loss for all of the groups interested. A condition of stability would be of greater benefit to all than are the temporary advantages accruing to special interests under extreme conditions. Within the range of the active and inactive periods of the industry may be found extremely high wages offset at another time by a more extensive unemployment of the workers than in any other industry in New York.

A higher unit cost of building here than anywhere in the United States, and low returns on investment, bring New York to a situation such as that through which we have been passing, one in which rent laws, tax exemption, and other consequent economic disturbances upset the established standards of investment values and force a speculative condition on the owner and investor, the real estate business man, and the building operator, all of whose interests are best served by stable conditions.

It is not alone labor's income which is uncertain. The professional men engaged in the industry, the general builders, the special trades, and the material men suffer extreme fluctuations in income through wide variations in the industry's activity. In order to do the

work which New York has attempted to do this year and last year these men must maintain organizations, plants, or stocks of material double those needed in the inactive periods.

These conditions are hurtful to the interests of the public as well as of those directly engaged in the industry. It is with the purpose of aiding in the correction of these conditions by the stabilization of the industry that the committee of the public group directs attention to a number of matters which have seemed of sufficient importance to warrant special mention in the hope that these suggestions might be further developed by those interested in the building industry.

The outstanding problem of the industry this year has been the supply of labor. The committee wishes to emphasize the fact that, while it has been forced to deal chiefly with this factor of the situation it has not been able to investigate the equally important items of production cost effected by the supply and the prices of materials, by transportation, and by profits. It is clear that stabilization involves a balance among all the factors entering into production, and that there would be little advantage in increasing the supply of workmen beyond the capacity of the trade, or of stabilizing wages while other costs remain unstable.

To find enough labor to supply an abnormal peak demand would be merely to intensify future unemployment and to emphasize every undesirable feature of the business cycle. It is as important to avoid a labor surplus as it is to remedy a true labor shortage. For this reason a more thorough investigation than the committee has been able to make is essential, and the following suggestions must be interpreted with this reservation in mind.

The acute labor shortage is not confined to the bricklayers, whose scarcity has been made so well known through New York's efforts to build schools. A similar condition exists in the number of plasterers and will shortly be more acutely felt and better understood as this trade is required for the completion of buildings now under way. Other trades also are more or less under-manned in spite of the fact that New York has drawn very largely on surrounding districts for a supply of workmen. This condition is now generally understood and it is not necessary, in discussing this subject, to go into detail regarding the existence and the proportions of the shortage in the number of skilled men required to carry on building operations in New York City.

The special point to which attention may well be given is the necessity of remedying this shortage and the means

(Continued on Page 559)

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**Power Plant**, Thirtieth and South streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Engineers, McClellan & Junkersfeld Co., 45 William street, New York. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick and concrete. Details undecided. Plans in progress.

**Hall**, Sixty-fifth and Girard avenue, Philadelphia. Architect, private plans. Owners, Haddington Taxpayers' Association, care of H. J. Stradley, 633 North Sixty-fifth street, Philadelphia. Stone, 1 story and basement, 100x100 feet, hot air heat, electric light, tile and marble work, slag roof, pine floors. Plans in progress. Will take bids in spring.

**Loft Building (alts. and add.)**, Eleventh and Buttonwood streets, Philadelphia. Architect, J. S. Fuller, 1615 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, 25x52 feet, steam heat, electric light, slag roof, pine floors. Plans in progress.

**Apartment House**, Fifty-second and Overbrook avenue, Philadelphia. Owners, Rose Construction Co., North American Building, Philadelphia. Brick and stone, lot 319 x irregular. Details undecided. Contemplated.

**Residence into Store and Apartments**, 6344 Green street, Germantown, Philadelphia. Architect, Louis Valentine Scherr, Drexel Building, Philadelphia. Owner, Jacob Solomn, care of architect. Steel work, concrete floors, electric work, plumbing, plastering, painting, carpentry and mill work, plate glass, metal bulks. Plans in progress. Architect will take bids in one week.

**Apartment House**, Overbrook and Lancaster avenue, Philadelphia. Architects, Richard A. Kerns, Jr., 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, limestone and steel, 8 stories, 176x100 feet, steam heat, electric light, metal lath, tile and marble work, hollow tile, elevators, slag roof, oak floors. Plans in progress. Architects will take bids in two weeks.

**Residence and Garage**, 5315 Wynnefield avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Samuel Sazar, care of architect. Stone, brick, 3 stories, 71x50 feet, demolition, hot water heat, electric light, tile and marble work, hollow metal skylight, waterproofing, metal lath. Plans in progress.

**Apartment House**, 2111 North Thirty-third street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Samuel Fessler, care of architect. Brick, 3 stories, 30x73 feet, demolition, electric light, tile and marble work, hollow metal skylight, bond, metal lath, copper roof, hardwood floors. Plans in progress.

**Junk Shop (alts. and add.)**, Northeast Corner Percy and Moyamensing avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. Levin, on premises. Brick, 3 stories, 22x45 feet, demolition, slag roof, cement and pine floors, metal lath, electric light. Plans in progress.

**Junk Shop (alts. and add.)**, 1702 Jackson street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, S. Sidewater, 1702 Jackson st., Philadelphia. Brick, 2 stories, 16x73 feet, demolition, slag roof, cement floors. Plans in progress.

**Apartment House**, Southeast Corner Forty-second and Walnut streets, Philadelphia. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, Hawthorne Realty Corporation, 1619 Chestnut street, Philadelphia. Brick and steel, 4 stories, 115x176 feet, hot water heat, electric light, metal lath, tile and marble work, 3 elevators, oak and pine floors, slag roof. Plans completed. Owner will build.

**Store and Apartment (alts. and add.)**, 1723 South Frazier street, Philadelphia. Architect, J. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, John J. Mahoney, 5600 Westminster avenue, Philadelphia. Brick and stone, 2 stories and basement, hot water heat, electric light, slag roof, pine floors, metal lath. Plans completed. Owner ready for bids.

**Residences (6)**, Nineteenth and Girard avenue, Philadelphia, \$67,000. **Office Building**, Northwest Corner Ridge and Girard avenues, \$12,000. Architect, I. W. Levin, Victory Building, Philadelphia. Owner, Jacob Hainowich, 832 Arch street, Philadelphia. Brick, 3 stories, various sizes, office building, 3 stories, irregular shape, steam heating, electric lighting, slag roof, hardwood and pine floors, tile work. Owner will build.

**Residences (10) (remodeling)**, 2402-2420 Manning street, Philadelphia. Architect, private plans. Owner, S. Specter, Southwest Corner Twenty-fourth and Spruce streets, Philadelphia. Carpentry, brick work, hardware, rough casting, brick pointing, electric wiring, vapor heat, plumbing, glazing, sheet metal work, skylights. A. S. Shafer, 1701 Green street, taking sub-bids.

**Residences (3) (alts.)**, 256-58-60 South Twenty-fourth street, Philadelphia. Architect, private plans. Owner, S. Specter, Southwest Corner Twenty-fourth and Spruce street, Philadelphia. Carpentry, mill work, cement work, plumbing, rough casting, brick pointing and glazing. A. S. Shafer, 1701 Green street, Philadelphia, taking sub-bids.

**Apartments (3) (alts.)**, 2403-5-7 Spruce street, Philadelphia. Architect, private plans. Owner, S. Specter, Southwest Corner Twenty-fourth and Spruce streets. Carpentry, glazing, painting, hardware, electric wiring, brick pointing. A. S. Shafer, 1701 Green street, Philadelphia, is taking sub-bids.

**Stores (2), Apartments (3) (alts.)**, Southwest Corner Twenty-fourth and Spruce streets. Architect, private plans. Owner, S. Specter, on premises. Shoring, raising roof, structural iron, stone, brick work, carpentry, mill work, metal lath, plastering, plate glass, hardware, hot water heat, plumbing, electric work, cement work, brick pointing, sheet metal work, painting. A. S. Shafer, 1701 Green street, Philadelphia, is taking sub-bids.

**Residences (13)**, Tacony, Philadelphia. Architect, S. Milner, 1117 Foulkrod street, Philadelphia. Owners, Tacony House Association, Twelfth and Leveck streets, Philadelphia. Stone, 2 stories, 15x40 feet, 14x40 feet, hot air heating, electric light, hardwood floors, slag roof. Owners taking sub-bids.

**Residences (50)**, Champlott avenue, Sixteenth street to Seventeenth street, Philadelphia. Architect, private plans. Owners, Gersonstein, Morris Lichtenstein & Tucker, 4751 North Eighth street. Brick, 2 stories, 15x40 feet, hot water heat, electric light, tile work, hardwood floors, slag roof. Owners taking sub-bids.

**Residences (3), Store (1)**, Front and Courtland sts., Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, J. Ellen, 5018 Rosehill street, Philadelphia. Brick, 2 stories, 17x32 feet each, hot water heat, electric light, slag roof, hardwood floors, tile work. Owner taking sub-bids.

**Manufacturing Buildings**, Sixty-third and Eastwick avenues, Philadelphia. Architect, Albert Kahn, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Surveying, test borings and preliminary work being done by Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Dairy Building**, Marvine below Jefferson street, Philadelphia. Architect, private plans. Owners, Supplee-Wills-Jones, 1523 North Twenty-sixth street, Philadelphia. Brick, reinforced concrete, steel, 2 stories, 56x48 feet, 56x56 feet (heating, electric, pipe covering,

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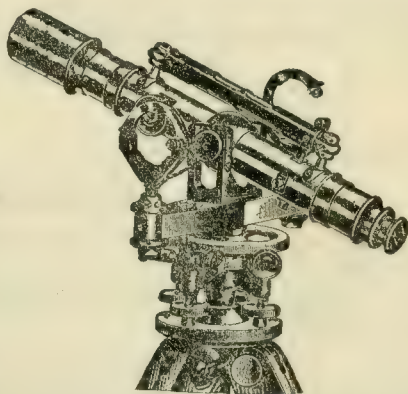
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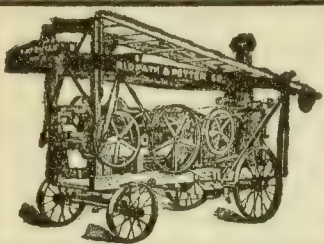
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sprinklers, refrigerators reserved), slag roof, concrete floors, plumbing, metal ceilings, waterproofing, iron work, fire doors, tile work, metal lath. Owners taking bids due September 4th.

**Residence**, Boyer street near Haines street, Philadelphia. Architect, private plans. Owner, Peter W. Deacon, 906 East Cheltenham avenue, Philadelphia. Stone, 2½ stories, 40x22 feet, 33x15 feet, tile roof, oak and pine floors, electric light, hot water heat, tile work, iron work. Owner taking bids due as soon as possible.

**Apartment and Garage (alts. and add.)**, 5209 Wayne avenue, Philadelphia. Architect, private plans. Owner, George W. Raynor, 5209 Wayne avenue, Philadelphia. Hot water heat, electric light, slag roof, union metal sash, masonry, brick work, cement work, mill work, lumber, stair work, hardware, plumbing, painting, glazing, plastering, iron work, stucco work. Owner taking bids due in about 3 weeks.

**Class Room (alts.)**, Forty-ninth and Chestnut streets, Philadelphia. Architect, Hoffman Henon, Finance Building, Philadelphia. Owners, West Philadelphia Catholic High School, care of D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Alterations to heating and electric work, carpentry and mill work, plastering, painting and glazing. Architect taking bids due as soon as possible.

**Store and Residence**, Southeast Corner Twentieth and Rittenhouse streets, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, William Finkel, Twentieth and Locust streets, Philadelphia. Brick, 3 stories, 19x40 feet (heating, plumbing, electric reserved), slag roof, hardwood and linoleum floors, metal lath, tile and marble work, bond, metal bulks, iron work. Architect will take bids due August 30th.

**Residence and Garage (alts. and add.)**, Southwest Corner Eleventh and Cheltenham avenue. Architect, Ruben Beard, 2120 North Lambert street, Philadelphia. Owner, Morris Gross, 1233 Market street, Philadelphia. Stone and brick, 3 stories, hot water heat, electric light, tile and marble work, slate roof, oak, cement floors, quarry tile. Architect taking bids due August 30th.

**Residences and Garage (2)**, Germantown, Pa. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owner, Oswald Chew, Commercial Trust Building, Philadelphia. Stone, cut stone, steel, 2½ and 1½ stories, 37x25 feet, 13x20 feet (heating, plumbing and finished hardware reserved), slate roof, electric light, oak and pine floors, tile and marble work, iron work. Architect taking bids due September 4th.

**School (addition to Landreth School)**, Twenty-third and Federal streets. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plumbing, heating, ventilating and electric work. And alts. to various schools, Philadelphia. Sanitary improvements, flag poles, gym equipment, moving picture machine, paving yards, fire tower, painting roof. Owner will take bids due September 6th at noon.

**Garage**, 2444 Germantown avenue, Philadelphia. Architect, private plans. Owners, John McCaffrey Co., Inc., 2444 Germantown avenue, Philadelphia. Brick, steel, 1 story, 60x78 feet, slag roof, steam heat, electric light, cement floors. Owners taking bids.

**Residence (alts.)**, 318 South Twenty-first street, Philadelphia. Architect, Ralph Goldberg, 10 South Eighteenth street, Philadelphia. Owner, Oscar L. Isenberg, care of architect. Heating alts., electric light, plastering, carpentry and mill work, painting and glazing, plumbin. Architect taking bids due August 29th.

**Store and Apartment (alts.), New Garage**, Fourth and Emily streets, Philadelphia. Architect, Louis Valentino Scherr, Drexel Building, Philadelphia. Owner, William Weiss, 422 Mercy street, Philadelphia. Stone, 1 story, 10x12 feet (garage), hot water heat, electric light, hardwood and composition floors, plumbing, tile and marble work, electric light, metal bulks. Owner taking bids due September 1st.

**Swimming Pool**, Thirty-second and Ridge avenue, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, limestone, steel, 1 story, 136x94 feet, slag roof, concrete floors, waterproofing, terra cotta, bond, iron work. Exceeded appropriation. Will readvertise.

**Swimming Pool**, Hedge and Orthodox streets, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, 127x98 feet, 16x98 feet, slate and slag roof, concrete floors, bond, waterproofing, terra cotta, iron work. Exceeded appropriation. Will readvertise.

**Restaurant (alts.)**, 4209 Market street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Wong Kew, on premises. Alterations to entrance, marble work, electric work, carpentry and mill work. Architect taking bids.

**Garage**, 4114-16 Ridge avenue (rear), Philadelphia, \$20,000. Architect, E. L. Buckham, 833 North Thirty-first street, Philadelphia. Owner, J. L. Park, 3322 Arnold street, Philadelphia. Brick, 1 story, 124x36 feet, 26x27

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feet, slag roof, cement floors, electric lighting. Architect will build.

**Residence**, South side Arrott street, West of Leiper street, \$17,000. Engineers, Lockhart & Simon, 1524 Chestnut street, Philadelphia. Owner, Edward M. Waller, 6313 North Park avenue, Philadelphia. Hollow tile and stucco, 2 stories, 34x31 feet, and 1 story, 15x6 feet, slate roof, hardwood and pine floors, hot air heating, electric lighting, tile work. Engineers will build.

**Residences (22)**, Fifty-third and Berks streets, Philadelphia, \$122,000. Architect, private plans. Owners, Steinman & Lesse, 25 South Fifty-ninth street, Philadelphia. Brick, 2 stories, (2) 15x52 feet, and (20) 15x30 feet, 11x17 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**Residences (2)**, Sixty-third and Lebanon avenue, Philadelphia, \$14,000 each. **Residences (12)**, Sixty-ninth street, South of Elmwood avenue, \$5,000 each. Architect, private plans. Owners, McWilliams & Melody, 539 South Fifty-second street, Philadelphia. Brick, (2) 3 stories, 16x48 feet, and (12) 2 stories, 15x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will build.

**Residences and Garages (54)**, 6200-52 and 6201-53 Homer street, Philadelphia, \$316,000. Architect, private plans. Owner, Ralph F. Moss, Anderson and Price streets, Philadelphia. Brick, 2 stories, 18x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Garage and Store**, South side Limekiln Pike, East of Ogontz avenue, \$32,000. Architect, private plans. Owner, William T. Clark, 1622 North Broad street, Philadelphia. Brick, 1 story, 60x175 feet and 15x50 feet, slag roof, cement floors, electric lighting. Owner will build.

**Stable and Barn**, 4537 Lancaster avenue (rear), \$8,000. Architect, private plans. Owner, B. Lemont Estate, on premises. Brick, 2 stories, 50x50 feet. B. D. Lemont, 4537 Lancaster avenue, Philadelphia, will build.

**Residences (2)**, South side Magee street, East of Bingham, \$5,000 each. Architect, private plans. Owner, Russell Reece, 1126 Magee street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garage**, 726-28 South Hutchinson street, Philadelphia, \$5,000. Architect, private plans. Owner, Laura Sonentino, 921 Catharine street, Philadelphia. Brick, 1 story, 32x47 feet, 48½x40 feet, slag roof, cement floors. Owner will build.

**Residence (add.)**, 2020 South Eighth street, Philadelphia, \$3,500. Architect, private plans. Owner, L. Kirschner, on premises. Brick, 2 stories add., 11½x25 feet, electric work, alterations. Owner will build.

**Building (alts.)**, Southeast Corner Thirtieth and Race streets, Philadelphia, \$3,500. Ar-

chitect, private plans. Owners, Armstrong & Latta, 1920 Sansom street, Philadelphia. General alterations. Owners will build.

**Office and Shop (alts. and add.)**, 1618 Wood street, Philadelphia, \$3,000. Architect, private plans. Owner, Albert Zellfelder, 1324 Walnut street, Philadelphia. Brick, 2 stories add., 14x54½ feet, general alterations. Owner will build.

**Residence**, 3308 Higbee street, Philadelphia, \$4,500. Architect, private plans. Owner, D. A. McColgan, 3310 Higbee street, Philadelphia. Brick, 2 stories, 16x41 feet, 1 story, 16x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Shop**, 2415 Olive street, Philadelphia, \$2,000. Architect, private plans. Owners, Lauderback Brothers, 43 South Seventeenth street, Philadelphia. Brick, 2 stories, 15x25 feet, slag roof, pine floors, electric lighting. Owner will build.

**Business Building (alts. and add.)**, Southwest Corner Eighth and Butler streets, \$2,000. Architect, private plans. Owner, K. Kelly, 725 Erie avenue, Philadelphia. Brick, 1 story add., 9x16 feet, general alterations. Owner will build.

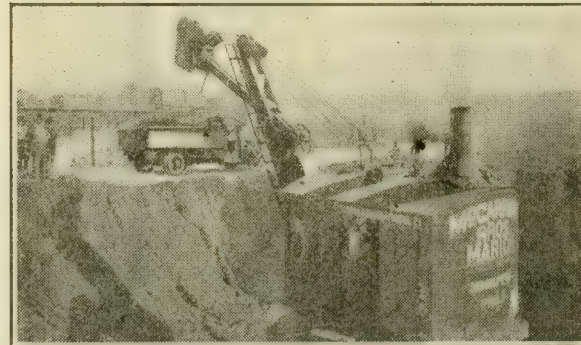
**Residence and Garage (12)**, Seventh and Oak Lane avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, care of architect. Brick and stucco, 2 stories, 16x60 feet, hot water heat, electric light, shingle roof, hardwood floors, hollow tile, tile work, bond, damp-proofing, wire work. Plans in progress.

**Apartments (interior alts.)**, 3943 Lancaster avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, care of architect. Interior partitions, 2 stories, 26x38 feet, slag roof, pine floors, tile work, hot water heating, bond, wire work. Plans completed. Architect taking bids due at once.

**Garage**, 1333 Frankford avenue, Philadelphia. Architect, Edward Schoppe, 316 South Fifth street, Philadelphia. Owner, William P. Veas, care of architect. Brick, steel, cut stone, 1 story, 100x40 feet, slag roof, cement floors, plumbing, roof ventilators, galvanized iron skylights, terra cotta copin, iron work. Architect taking bids due September 5th.

**Synagogue and Community Building**, Thirty-first and Diamond streets, Philadelphia. Architects, Suarman, Hess & Berger, 16 East Forty-third street, New York. Owners, Bnai Jeshurum Congregation, on premises. Brick, reinforced concrete, granite, steel, precast stone, concrete and stone, 3 and 1 stories, 159x80 feet (heating, plumbing, electric structural steel reserved), slag, tile, copper ribbed roof, concrete and North Carolina pine floors, metal lath, tile and marble work, hollow metal sash, copper skylights, iron and kalamein doors, bond, iron work and stairs, terra cotta, dampproofing and waterproofing, metal weather strips. Architect taking bids due September 4th.

**Residence (alts.)**, 2037 Delancey street, Philadelphia. Architect, John P. Harbeson, 112 South Sixteenth street, Philadelphia. Owner, F. B. A. Linton and George Meyer, on premises. Interior alts., new studio, fireplaces, partitions and ceilings, slate and tin roof, hardwood floors, hot water heat, electric work, tile work. Architect taking bids due September 4th.



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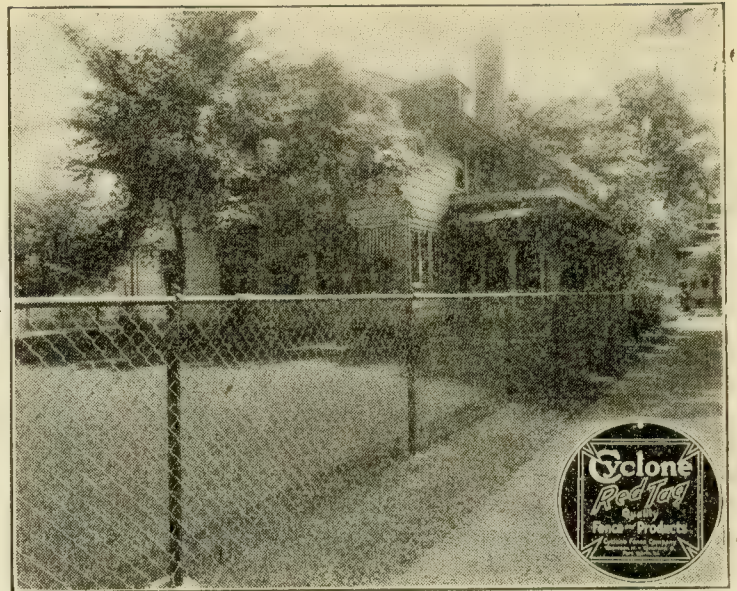
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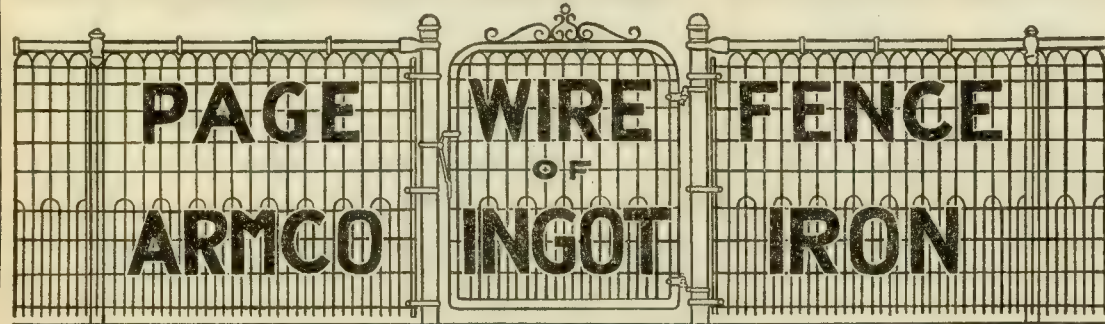


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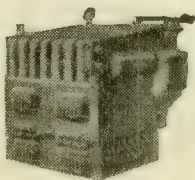
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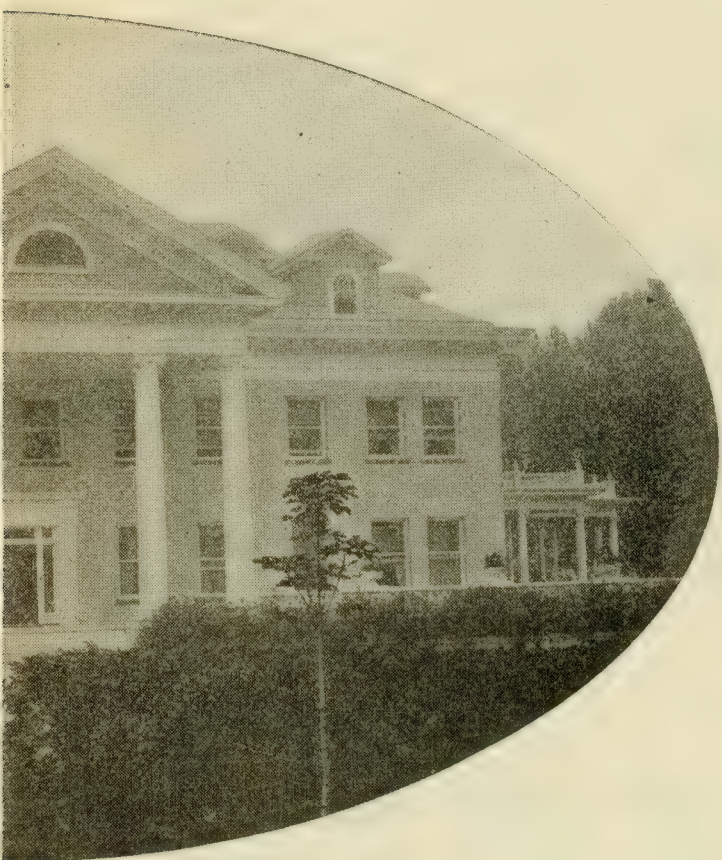
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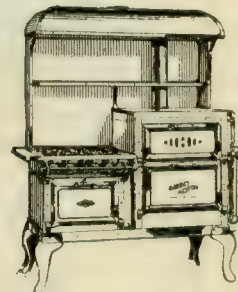
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## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Orphanage**, Northeast Corner Fifty-eighth and Kingsessing avenue, Philadelphia, \$40,000. Architect, J. K. Crothers, Merion, Pa. Owners, Presbyterian Church Orphanage, on premises. Stone, 3 stories, 75x45 feet, slate roof, central steam heat, pine and composition floors, electric light. Contract awarded J. H. Hinkle & Co., 2507 South street, Philadelphia.

**Stores and Offices**, 5536 Baltimore avenue, Philadelphia. Architect, Clarence L. Caspary, 225 South Seventeenth street, Philadelphia. Owner, Nathan Korn, 5516 Baltimore avenue, Philadelphia. Brick and steel, second story add., 18x84 feet, slag roof, oak and composition floors, steam heat (electric light reserved), tile and marble work, bond, iron work, terra cotta. Contract awarded to T. S. Fetter, 1829 Filbert street, Philadelphia.

**Residence (alts.)**, 2340 Park avenue, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street. Owner, Joseph Caplan, care of architect. Brick and steel, tin roof, oak floors, metal lath, tile and marble work, bond, iron work, plastering, carpentry and mill work, plumbing, painting and glazing. Contract awarded W. Smith &

Son, 3725 North Sydenham street, Philadelphia.

**Warehouse (fire repairs)**, American and Filbert streets, \$18,000. Architect, Benjamin Brown, Denekla Buildin, Philadelphia. Owner, Bernard Gilgore, 5006 Ornes street, Philadelphia. Brick work, carpentry, mill work, glazing, slag roof, pine and maple floors (plumbing, heating, electric and elevators reserved), rolled steel sash. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia.

**Damp Wash Laundry**, 1525 Belfield avenue, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, S. Reichman, care of architect. Brick, 1 story and basement, 94x38 feet, slag roof, cement floors, electric light, galvanized iron skylights, roof ventilators, ornamental iron work. Contract awarded Thomas Duff, 4666 Wyoming avenue, Philadelphia.

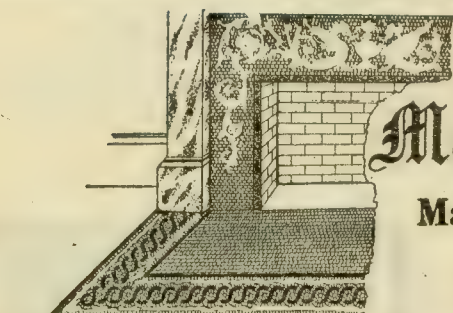
**Cambria Theatre (alts.)**, Twenty-fifth and Cambria streets, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owner, George Nordasher, on premises. Brick and steel, electric light, metal lath, marble work, fire doors, bond, floor

hardener, cement floors. Contract awarded J. J. Reich, 5126 North Tenth street, Philadelphia.

**Church, Sunday School and Auditorium**, Holmesburg, Pa. **Residences (26)**, Erdrick and Welsh Road, Philadelphia, \$124,000. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Mt. Zion Baptist Church, Holmesburg, Pa. Church, brick, 1 story, 92x40 feet, slate roof, pine floors, steam heat, electric light. Residences, brick and stucco, 2 stories, 16x35 feet, asbestos roof, pine floors, hot air heat, electric light, cement work. Contract awarded Felix Claro, 5439 Webster street, Philadelphia.

**Building (alts. and add.)**, Tackawanna and Orthodox streets, Philadelphia, \$22,000. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, The Workmen's Realty & Development Co., Inc., on premises. Brick, 3 stories, 32x37 feet (plumbing, heating and electric reserved), slag roof, pine and composition floors, metal lath, marble work, bond, ornamental iron work. Contract awarded Felix Claro, 5439 Webster street, Philadelphia.

**Hancock Playground**, Hancock and Jefferson streets, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Demolition, excavating, surfacing, concrete iron fences and gates, bond. Contract awarded C. A. Conan, 133 North Vodge street, Philadelphia, \$18,653. Plumbing, J. Bugger, 2124



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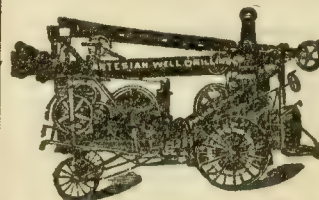
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East Cumberland street, Philadelphia, \$978.

**Group of Buildings (alts.),** Independence Hall, Philadelphia. City architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Marble work, steel and iron work, carpentry and mill work, plastering, pine floors, hardware, metal lath, painting and glazing, bond. Contract awarded L. W. Hurley, Bulletin Building, Philadelphia, \$31,825.

**Residence (alts. and add.),** 6314 Wissahickon avenue, Germantown, Pa., \$8,000. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Arthur Ewings, on premises. Hollow tile and stucco, 16x12 feet, slate roof, oak floors, tile work, slate roof, carpentry, mill work, plastering, painting, glazing, cement work. Contract awarded McNeill Valentine Co., 841 North Broad street, Philadelphia.

**Church,** Meadow street, Frankford, Philadelphia, \$33,000. Architects, R. R. Neely and E. William Martin, 2301 Spruce street. Owners, Second Baptist Church of Frankford, Pa. Brick and stucco, 48x50 feet, hot water heat, electric light, slate roof, hardwood and pine floors. Contract awarded Felix Claro, 5439 Webster street, Philadelphia.

**Residence (alts.),** 2121 Delancey street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Sarah A. Wilson, 1909 Chestnut street. General alterations, carpentry, hot water heat, electric light, tile work, plumbing. Contract awarded A. S. Shafer, 1701 Green street, Philadelphia.

**Workshop,** 327-37 North Randolph street, Philadelphia, \$21,000. Architect, private plans. Owners, Berko Brothers, Randolph and Wood streets, Philadelphia. Brick, 2 stories, 56x40 feet, and 1 story, 72x60 feet, 22x40 feet, slag roof, electric work, yellow pine floors. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Residences (2),** 1831-33 Spruce street, Philadelphia, \$17,500 each. Owners, Samuel Cohen & Co., 225 South Broad street, Philadelphia. Brick, 3 stories, 18½x26 feet, 14½x22 feet, hardwood and pine floors, electric lighting, tile work, slag roof. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

**Filter Plant and Alterations to Manufacturing Building,** Northwest Corner Twenty-fourth and Vine streets, Philadelphia, \$17,000. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, John Lang

Paper Co., on premises. Filter plant, iron, 1 story, 60x26 feet, 12x24 feet, alterations to building. Contract awarded to Barclay White & Co., 1713 Sansom street.

**Garage,** 311-15 Delancey street, Philadelphia, \$14,000. Architect, private plans. Owner, S. Comitta, 714 Vine street, Philadelphia. Brick, 1 story, 44x100 feet, slag roof, cement floors. Contract awarded to H. Miller, 427 Catharine street, Philadelphia.

**Residences (12),** Devereaux, Walker, Algard and Cottage streets, \$65,400. Architect, private plans. Owner, W. H. Waters, 5417 North Fifth street, Philadelphia. Brick, 2 stories, (10) 15x34 feet, 12x16 feet and (2) 15x50 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Contract awarded to F. W. Starkey, 1669 Bridge street, Philadelphia.

**Garages (2),** Longshore street, East of Ditman street, Philadelphia, \$16,500. Architect, private plans. Owner, J. Lubick, 3506 Longshore street, Philadelphia. Brick, 1 story, (1) 51x18 feet, 34x11½ feet, and (1) 18x18 feet, 15½x11½ feet, slag roof, cement floors, electric lighting. Contract awarded to John W. Emroy Co., 34 South Sixteenth street, Philadelphia.

**Residences (11) and Garage,** Twenty-first and Pacific streets, Philadelphia, \$117,700. Architect, private plans. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, 2 stories, (6) 16x30 feet, 13x44 feet, and (5) 16x28 feet, 13x344 feet, slag roof, hardwood and pine floors, hot water heat, electric light. **Garage,** 1 story, 97x20 feet. Contract awarded to George A. Nahm, 2736 Girard avenue, Philadelphia.

**Building,** 233-35 Market street, Philadelphia, \$10,000. Architect, private plans. Owners, M. Grossman's Sons, 211 Market street, Philadelphia. General fire repairs, carpentry, mill work, brick work, steam heat, electric work, steel sash, painting, glazing. Contract awarded to Harry R. Rust Estate, 19 South Eighth street, Philadelphia.

**Residence and Store (add.) and Garage,** Southwest Corner Chew and Phil-Elena streets, \$14,000. Owner, M. J. Lagan, on premises. Brick, 2 stories, 42½x42½ feet, hardwood floors, electric lighting, slag roof, garage, 1 story, 18x40 feet, slag roof, cement floors. Contract awarded to John R. Wills, 601 Locust avenue, Philadelphia.

**Residence,** Northeast Corner Solly and Castor avenues, Philadelphia, \$8,000. Architect, private plans. Owner, Mary T. Lumme, Holmesburg, Philadelphia. Frame, 2 stories, 18x38 feet, hardwood and pine floors, electric lighting, hot water heating, tile work. Contract awarded to Walter Freas, 9532 Bustleton avenue, Philadelphia.

**Residence,** East side Mitchell street, South

of Parker avenue, \$6,200. Architect, private plans. Owner, Thomas L. Monke, Shawmont avenue, Roxborough, Philadelphia. Stone, 1 story, 32x40 feet, hardwood and pine floors, electric lighting, hot air heating. Contract awarded to Carl F. Hirsch, 410 Spring Mill Road, Cheltenham, Pa.

**Workshop,** 2710 North Fifth street, Philadelphia, \$8,000. Architect, private plans. Owner, John Otto, on premises. Brick, 2 stories, 30x92 feet, slag roof, pine floors. Contract awarded to William Cloak, 2004 East Orleans street, Philadelphia.

**Lumber Shed,** Northwest Corner Seventy-second and Powers Lane, Philadelphia, \$6,000. Architect, private plans. Owners, R. A. and J. J. Williams Co., Twenty-second and York streets, Philadelphia. Frame, 93x207 feet. Contract awarded to Paul Brosz, 2511 West Huntingdon street, Philadelphia.

**Store and Residence (add.),** 2128 Toronto street, Philadelphia, \$7,000. Architect, private plans. Owner, L. Mazza, on premises. Brick, 3 story front add., 22x32 feet, slag roof, oak and pine floors. Contract awarded to Frank Tupeletti, 3023 North Twenty-first street, Philadelphia.

**Residences (3) (alts.),** 936-38-40 North Marshall street, \$5,000. Architect, private plans. Owner, Mary Bartch, on premises. General alterations. Contract awarded to Bass & Co., 713 Walnut street, Philadelphia.

**Garage,** North side Arizona street, West of Coral street, Philadelphia, \$4,500. Architect, private plans. Owner, R. Haenel, 2024 East York street, Philadelphia. Brick, 1 story, 26x20 feet, 17x61 feet, slag roof, cement floors. Contract awarded to Harold E. Miller, 2528 Coral street, Philadelphia.

**Residences (2),** East side Lawndale street, South of St. Vincent street, \$4,200 each. Architect, private plans. Owner, Lena Pelman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Henry Pelman, 1225 Cottman street, Philadelphia.

**Residence (add. and alts.) to Garage,** North side Arizona street, West of Coral street, Philadelphia, \$4,000. Architect, private plans. Owner, R. Haenel, 2024 East York street, Philadelphia. Brick, 1 story add., 16 feet 6 inches x 61 feet, changing residence to garage. Contract awarded to Harold E. Miller, 2528 Coral street, Philadelphia.

**Grand Stand,** Frankford avenue and Devereaux street, Philadelphia, \$3,500. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owners, Franklin Athletic Association, care of architect. Frame and timber, 25x360 feet, plumbing, showers, concrete footing. Contract awarded to George W. Crosley, 5717 Jackson street, Philadelphia.

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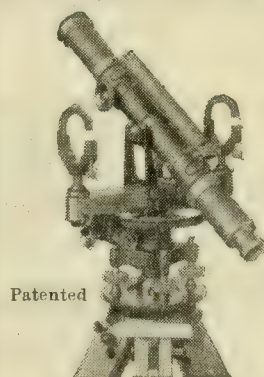
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**Residence (add. and alts.),** 1735 South Second street, Philadelphia, \$4,000. Architect, private plans. Owner, Daid G. Barnett, on premises. Brick, 1 story, 13x38 feet 10 inches, general alterations. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

**Shop and Storage Building (add.),** 2625-27 Christian street, \$2,600. Architect, private plans. Owner, C. F. Ganker, 2141 South Nineteenth street, Philadelphia. General alterations and additions. Contract awarded to Sandberg & Naulty, 37 North Ninth street, Philadelphia.

**Garage,** Southeast Corner Shedwick and Lippincott streets, Philadelphia, \$4,525. Architect, private plans. Owner, Clarence F. Daymon, on premises. Brick, 1 story, 75x32 feet, slag roof, cement floors, electric work. Contract awarded to Samuel L. Brittingham, 2421 North Hollywood street.

**Residences (2),** East side Palmetto street, South of Bleigh street, \$4,500 each. Architect, private plans. Owner, Leslie F. Quinlan, 917 Princeton street, Philadelphia. Brick, 2 stories, 16x35½ feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to C. Rutter, 3224 North Philip street, Philadelphia.

**Garage,** Southwest Corner Ninth and Greenwich streets, Philadelphia, \$3,000. Architect, private plans. Owner, M. Rutberg, 515 Tasker street, Philadelphia. Brick, 1 story, 30½x64 feet, slag roof, cement floors. Contract awarded to I. Bacharach, 314 Greenwich street, Philadelphia.

**Garage,** 1907-09 Kinsey street, Philadelphia, \$2,500. Architect, private plans. Owner, Robert E. Mack, 1907 Kinsey street, Philadelphia. Brick, 1 story, 40x38 feet, slag roof, cement floors. Contract awarded to George H. Thirk, 4305 Horrocks street, Philadelphia.

**Garage,** 2608 Annin street, Philadelphia, \$2,000. Architect, private plans. Owners, E. Johnston & Son, 2607 Federal street, Philadelphia. Brick, 1 story, 32x20 feet, slag roof, cement floor. Contract awarded to George H. McCurdy, 2125 South Sixty-fifth street, Philadelphia.

**Residence and Office (add. and alts.),** 1535 Christian street, \$2,000. Architect, private plans. Owners, A. S. Murphy Estate, on premises. Brick, 1 story add., 5x7 feet, general alterations. Contract awarded to William Johnston, 1538 Alter street, Philadelphia.

**Residence and Bakery (add.),** 2310 Aspen street, Philadelphia, \$3,000. Architect, private plans. Owner, Alex. Hryhorec, on premises. Brick, 1 story add., 16x12 feet, new bake oven. Contract awarded to Joseph Schmidt, 752 West Taylor street, Philadelphia.

**Residence and Store (alts. and add.),** 1828 Columbia avenue, \$3,000. Architect, private plans. Owner, Israel Matuck, 738 South Fourth street, Philadelphia. Brick, 1 story, 12x18 feet, and 1 story, 3x18 feet, general alterations. Contract awarded to Jacob Lag-

nato, 1101 North Forty-second street, Philadelphia.

**Church and Residence (alts.),** 1501-03 North Eleventh street, Philadelphia, \$3,500. Architect, private plans. Owners, Zion Methodist Episcopal Mission, Eleventh and Jefferson streets, Philadelphia. General alterations. Contract awarded to M. Sobel, 1447 North Fifty-second street, Philadelphia.

**Store and Factory (alts.),** 25-27 South Eighth street, Philadelphia, \$2,000. Architect, private plans. Owner, Samuel Kia-konly, Southeast Corner Fourth and Morris streets, Philadelphia. General alterations. Contract awarded to L. Birkel, 5438 North Second street, Philadelphia.

**Residence (alts. and add.),** 2312 North Sixteenth street, Philadelphia, \$2,000. Architect, private plans. Owner, Oscar Mirell, 2312 North Sixteenth street, Philadelphia. Brick, 1 story, 15x12 feet, and 1 story, 12x10 feet, general alterations. Contract awarded to William Cole, 2720 West Lehigh avenue, Philadelphia.

**Building (alts.),** 5141-43 Market street, Philadelphia, \$3,000. Architect, private plans. Owners, Horn & Hardart Baking Co., 210 South Tenth street, Philadelphia. General alterations. Contract awarded to Harry R. Rust Estate, 19 South Eighth street, Philadelphia.

**Garage,** 2214 East Harold street, Philadelphia, \$2,000. Architect, private plans. Owner, Hugh McGee, 2217 East Huntingdon street, Philadelphia. Brick, 1 story, 18x27 feet, slag roof, cement floors. Contract awarded to Joseph A. Wolf, 2623 Sepviva street, Philadelphia.

**Residence (alts.),** 4916 North Camac street, Philadelphia, \$3,500. Architect, private plans. Owner, Mrs. Ella R. Chase, on premises. General alterations. Contract awarded to R. M. Peterson & Son, 6 Queen Lane, Philadelphia.

**Residence and Store (alts.),** 1011 West Thompson street, \$2,000. Architect, private plans. Owner, Simon Duckat, 4133 West Girard avenue, Philadelphia. General alterations. Contract awarded to William Liss, 2618 South Sheridan street, Philadelphia.

**Store,** 6518 Rising Sun avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Rouchal, on premises. Brick, 1 story, 9x25 feet, pine floors, electric work. Contract awarded to T. Wilkinson, 3639 North Ninth street, Philadelphia.

**Garage,** 826 North Fifth street (rear), Philadelphia, \$2,000. Architect, private plans. Owner, Dr. P. F. Moylan, 1025 North Sixth

street, Philadelphia. Brick, 1 story, 16x20 feet, slag roof, cement floors. Contract awarded to William F. Newbery Co., 801 Otis Building, Philadelphia.

**Store and Residence (alts. and add.),** 3401 G street, Philadelphia, \$2,000. Architect, private plans. Owner, Pauline Glass, 3710 Market street, Philadelphia. Brick, 1 story, 16x6 feet and 14x16 feet, general alterations. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

**Manufacturing Building (add.),** 2011 East Arizona street, \$2,000. Architect, private plans. Owner, D. Goldenberg, 2935 Frankford avenue, Philadelphia. Brick elevator shaft, 3 stories. Contract awarded to R. G. Ewing, 2506 North Seventeenth street, Philadelphia.

## Pennsylvania Construction News

**Theatre (moving picture),** Bethlehem, Pa., \$150,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Civic Theatre Corporation, Bethlehem, Pa. Brick, stone, castone, 1 story, 55x190 feet, slag roof, steam heat, electric light, tile and marble work, fire doors, cement and hardwood floors, hollow tile, metal lath. Plans in progress.

**Theatre,** Mahanoy City, Pa., \$200,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Chamberlain Amusement Co., Mahanoy City, Pa. Brick, stone, caststone, 1 story, 70x160 feet, steam heat, electric light, metal lath, tile and marble work, fire doors, slag roof, cement and pine floors, hollow tile. Plans in progress.

**High School and Athletic Field,** Shamokin, Pa., \$700,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Coal Township School Board, Shamokin, Pa. Brick, stone and cast stone, 3 stories and basement, 350x185 feet, slag roof, pine floors, hollow tile, metal lath, steam heat, electric light, tile and marble work, fire doors. Plans in progress.

**School (high),** Palmerton, Pa., \$300,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Palmerton School Board, care of R. B. Rosenberry, Palmerton. Brick, steel, cast stone, 3 stories and basement, 186x165 feet, slag roof, steam heat, electric light, pine floors. Plans completed. Architect and owners ready for bids.

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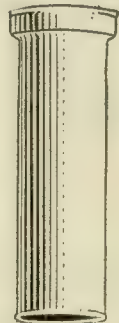
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**Hospital (add.)**, Walnut street, Reading, Pa. Architect, Fred Muhlenberg, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Hospital, Reading, Pa. Brick, terra cotta and concrete, 4 stories, 45x250 feet, asphalt roof, composition floors, hollow tile, (2) elevators, roof ventilators, steam heat, electric light, metal lath, tile, marble and terrazzo work. Architect ready for bids.

**Parish House**, Winchester, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Grace Lutheran Church, Rev. A. A. Kelly, Winchester, Pa. Brick, 1 story and basement, 50x98 feet, slate roof, hardwood floors, hollow tile, vapor heating. Owners taking bids.

**Bungalow**, Temple, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Charles Potteiger, 530 Elm street, Reading, Pa. Stucco and concrete, 1 story, 26x34 feet, hardwood floors, electric lighting. Owner will build.

**Garage**, Ardmore, Pa. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Max Drelsh, Ardmore, Pa. Stone, 1 story, 57x100 feet, irregular, hot water heat, electric light, slag roof, cement floors. Plans in progress.

**High School**, Hyde Park, Muhlenberg Township, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Muhlenberg Township School Board, W. M. Kently, Hyde Park, Pa. Brick. Architects selected.

**Residence**, Wyomissing, Pa., \$250,000. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Gusta Oberlander, Wyomissing, Pa. Sketches in progress.

**Hotel (alts. and add.)**, Scranton, Pa. Architects, Dreher, Churchman and Paul, Otis Building, Philadelphia. Owners, Hotel Jermyn, care of architect. Brick, steel, 2 stories, 110x160 feet. Preliminary reports in progress.

**Bungalow**, South side Mill Road, West of Wexford Road, Brookline, Pa. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Walter S. Wilcox, Victory Building, Philadelphia. Stone, 1½ stories, 40x60 feet, asbestos or tile roof, hardwood floors, electric light, hot water heat, tile work. Plans in progress.

**Welfare Buildings (2)**, Altoona, Pa. Architect, William Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel, concrete, 2 stories, 142x42 feet, steam heat, slag roof, concrete floors, electric light, iron work. Owners taking bids due September 5th.

**Residence (alts. and add.)**, St. David's, Pa. Architect, Louis S. Adams, 1703 Chestnut street, Philadelphia. Owners, Mr. and Mrs. George L. Harrison, Jr., St. David's, Pa. Brick, stucco, steel, 2½ stories, 28x22 feet, heating alterations, electric light, cement and oak floors, carpentry and mill work, plastering, painting and glazing, plumbing, tile work, iron work. Architect taking bids due September 4th.

**Residence and Garage**, Blancoyd and Grey-ston Road, Merion, Pa. Architect, Ralph E. White, Pennsylvania Building. Owner, Job No. 3759. Stone, brick, cut stone, stucco, 2½ stories, 51x31 feet and 30x26 feet, tile roof, oak, pine and cement floors, plumbing, iron

work, metal lath, tile work. Architect taking bids due September 5th.

**Women's Club House (alts.)**, Springfield, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Women's Club of Springfield, Pa. Brick and steel, 1 story, 16x10 feet (plumbing, heating and electric work reserved), slag and shingle roof, cement floors, metal lath, bond, iron work, plastering. Architects taking bids due as soon as possible.

**Interior Finish**, South Office Building, Capitol Park, Harrisburg. Architect, Arnold W. Brunner, 101 Park avenue, New York City. Owners, Department of Property and Supplies, Berkley H. Boyd, secretary, Harrisburg, Pa. Cork and maple floors, hollow tile, metal lath, bronze work, carpentry and mill work, kalamein doors, iron work and stairs (heating, ventilating, plumbing, electric, elevators separate bids). Lowest bidders: C. W. Strayer, Harrisburg, Pa., \$660,000; P. H. Kelly, 1713 Sansom street, Philadelphia, \$673,000.

**Road Work**, Pennsylvania. Owners, State of Pennsylvania, Department of Highways, Harrisburg, Pa. Owners taking bids due September 11th at 10 A. M. Plans, \$2.50 per set. Forms and specifications free.

Berks County, Route 149, Wyomissing and West Reading Boroughs, 5,292 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Berks County, R-160, Shoemakersville Borough and Perry Township, 7,210 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Bradford County, R-212, Burlington and North Towanda Townships, 19,934 feet. One course reinforced concrete. Certified check, \$3,000.

Bucks County, A-1302, Morrisville Borough, 3,845 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,000.

Butler County, R-79, Butler, Connoquenesing and Franklin Townships, 27,037 feet. One course reinforced concrete. Certified check, \$4,000.

Crawford County, R-83, A-1558, Conneaut Lake Borough, Sadsbury, Summit and Pine Townships, 29,027 feet. Either bituminous surface course on concrete foundations or one course reinforced concrete. Certified check, \$4,000.

Delaware County, R-131, Middletown Township, 11,720 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Erie County, A-1467, Harbor Creek Town-

ship, 13,625 feet. Either bituminous surface course on concrete foundations or one course reinforced concrete. Certified check, \$2,500.

Fayette County, R-117, Everson Borough, 1,603 feet. One course reinforced concrete. Certified check, \$1,000.

Fayette County, Smithfield Borough and Georges Township, 5,396 feet. One course reinforced concrete. Certified check, \$1,000.

Fayette County, A-874, Fayette City Borough and Washington Township, 1,125 feet. One course reinforced concrete. Certified check, \$1,000.

Greene County, R-268, Jefferson Borough. One course reinforced concrete. Certified check, \$1,000.

Indiana County, R-54, A-2157, Cherryhill and Rayne Townships, 18,421 feet. One course reinforced concrete. Certified check, \$3,000.

Lancaster County, R-138, A-1555, Manheim Borough, 3,276 feet. One course reinforced concrete. Certified check, \$1,000.

Northampton County, A-2557, Northampton Borough, 3,526 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Check, \$1,000.

Somerset County, R-52, A-1361, Boswell Borough, 8,104 feet. One course reinforced concrete. Certified check, \$1,000.

Westmoreland County, R-120, Irwin Borough, 3,304 feet. One course reinforced concrete. Certified check, \$1,000.

York County, Shrewsbury Township and New Freedom Borough, 7,911 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Certified check, \$1,500.

Resurfacing. Armstrong County, R-69, South Buffalo Township, 11,524 feet. One course reinforced concrete. Certified check, \$2,000.

**Dormitory Building**, Doylestown, Pa. Architects, Andrew Sauer & Co., Denckla Building, Philadelphia. Owners, National Farm School, Doylestown, Pa. Brick, cut stone, steel, stucco, limestone, 2½ stories, 135x48 feet, vacuum heat, electric light, metal lath, tile, marble and terrazzo work, kalamein sash and doors, bond, iron work, metal weather strip, plumbing, tile floors, slate roof. Architect taking bids due September 5th.

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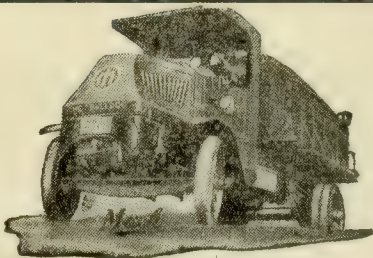
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## Pennsylvania

### Contracts Awarded

**School**, Watsonstown, Pa., \$100,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Johnstown School Board, care of D. L. Bly and F. E. Kirk, Watsonstown. Brick, stone, 3 stories, 75x70 feet, built-up roof, pine floors, unit system heating, electric lighting, reversible sash, iron and steel work, bond. Contract awarded I. O. Fetter, Sumbury, Pa.

**School (add.)**, Neffsville, Lancaster County, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Neffsville School Board, E. Espenshade, secretary, 1040 North Duke street, Lancaster, Pa. Brick, cinder block, 1 story, 100x150 feet, composition roof, hardwood floors (heating, plumbing and electric work reserved), roof ventilators, rolled steel skylights, iron work. Contract awarded to H. W. Frey, Martindale, Pa.

**Bank (alts. and add.)**, Carlisle, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Farmers' Trust Co., Dr. Sadler, chairman, Carlisle, Pa. Brick, 1 and 2 stories, 18x98 feet, composition roof, tile and marble work, sheet metal skylights, metal window guards, electric light, tile, marble and terrazzo work, hollow tile, bank fixtures, bronze work, iron work. Contract awarded to H. A. Lackey, Carlisle, Pa.

**Residence**, Wyomissing, Pa. Architect, Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, Charles Freyberger, Wyomissing, Pa. Brick, 2½ stories, 45x35 feet, slate roof, hardwood floors, electric lighting. Contract awarded to H. Rauenbush, 1324 Perkiomen avenue, Reading, Pa.

**School**, Freeland, Pa. Architect, Emil G. Perrot, Boyertown Building, Philadelphia. Owners, St. Ann's Roman Catholic Congregation, Freeland, Pa. Stone, 2 stories, steam heat, electric light, slag roof, pine floors. Contract awarded Durnin Cons. Co., Allentown, Pa.

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa.

Erie County, R-86 and 272, Fairview Township and Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Mayer Bros. Const. Co., Erie, Pa., \$151,594.70.

Erie County, R-295, Elk Creek and Conneaut Townships and Cransville Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Charles H. Fry Const. Co., Erie, Pa., \$176,825.78.

Tioga County, R-196, Richmond and Covington Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to A. W. Hinaman, Canton, Pa., \$127,446.95.

Northumberland and Montour Counties, R-2, Point, Mahoning Townships and Danville Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to T. S. Evans, Daville, Pa., \$182,878.16.

York County, R-124, Dover Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Warren Bos. Co., Boston, Mass., \$73,379.10.

McKean County, Route 211, Otto and Foster Townships. One course reinforced concrete and hillside vitrified brick. Contract awarded to D. L. Dennis, Eldred, Pa., \$139,728.70.

Erie County, Route 258, Washington Township. One course reinforced concrete and hillside vitrified brick. Contract awarded to W. B. Const. Co., Erie, Pa., \$61,967.67.

Erie County, Route 258, Mill Creek, Summit and McKean Townships and Middle Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Johnson, Drake & Piper, Inc., Slippery Rock, Pa., \$208,189.18.

Delaware County, A-2473, Springfield, Marple and Upper Providence Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Vincenzo De Francesco, Llanerch, Pa., \$176,286.89.

Beaver County, Appli. 2578, Center and Hopewell Townships. One course reinforced concrete. Contract awarded to D. W. Chellis & Sons, Sewickley, Pa., \$36,055.25.

Indiana County, Appli. 2431, Burrell Township. One course reinforced concrete. Contract awarded to A. R. Cooper, Idamar, Pa., \$14,253.70.

Delaware County, A-1242, Trainer Borough and Lower Chichester Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Highway Const. Co., Land Title Building, Philadelphia, \$81,601.24.

Delaware County, Route 133, Marple and Newtown Townships. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Highway Const. Co., Land Title Building, Philadelphia, \$122,748.68.

McKean County, Route 95, Wetmore Township and Kane Borough. One course reinforced concrete. Contract awarded to J. C. Devine Co., Alliance, Ohio, \$154,270.70.

Susquehanna County, A-2513, Montrose Borough. One course reinforced concrete and hillside vitrified brick. Contract awarded to Earl V. Chappell, Binghamton, N. Y., \$15,208.50.

Fayette County, Route 247, Perry Township. Bituminous macadam (penetration method). Contract awarded to Garvey-Weyenberg Const. Co., Appleton, Wis., \$68,609.95.

## New Jersey

### Construction News

**School, Auditorium and Gymnasium**, Pensauken, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Pensauken School Board, care of architect. Brick, 22 rooms. Preliminary plans in progress.

**Residence and Garage**, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, M. L. Stetzer, Merchantville, N. J. Stucco, 2½ stories, 27x56 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Revised plans in progress.

**Bank and Office Building**, Eighth and Asbury avenue, Ocean City, N. J. Architects, Paul A. Davis, 3rd, and Dunlap, 1713 Sansom street, Philadelphia. Owners, Ocean City Title & Trust Co., Ocean City, N. J. Reinforced concrete, limestone, brick, granite, 7 stories, 62x92 feet, steam heat, electric light, metal lath, tile and marble work, elevators, slag roof, reinforced concrete floors, waterproofing and dampproofing. Plans about completed. Architects ready for bids.

**School**, 12 Pennsylvania avenue, North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board of North Wildwood, N. J., Thomas B. Akarman, secretary. Brick, cut stone, steel, 3 and 2 stories, 164x36 feet and 91x52 feet (heating, plumbing, electric separate), asbestos built-up roof, cement and maple floors, metal lath, tile and marble work, rolled steel sash, hollow metal doors, bond, iron stairs, iron work, safety treads,

hollow tile. Owner taking revised bids due August 30th.

**Women's College**, New Brunswick, N. J., \$250,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton. Owners, State of New Jersey, care of architect. Brick, steel, concrete, hollow tile, 2 stories and basement, 158x78 feet, slate roof, mastic and hardwood floors, hollow tile, roof ventilators (heating, plumbing and electric reserved), tile work, marble, rolled steel sash and skylights, iron stairs. Architects taking bids due September 6th.

**Residence and Garage**, Vendome avenue and Ventnor Park, Margate City, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Frank S. Clowney, 22 South Pennsylvania avenue, Atlantic City, N. J. Frame and shingle, 2½ stories, 25x41 feet, slate roof, hardwood and cement floors, vapor heat, electric light, tile work. Architect taking revised bids due September 1st.

**Dudley Hotel (alts. and add.)**, 30 South Pennsylvania avenue, Atlantic City, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Louis R. Pollock, Atlantic City, N. J. Brick, limestone, 4 stories, 38x90 feet, vapor heat, electric lighting, tile work, slag roof, concrete, tile and hardwood floors, plumbing, galvanized iron ventilators, terra cotta. Architect will take bids August 31st.

**Store and Residence (alts. and ad.)**, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, L. Donien, care of architect. Brick 1 story, 16x15 feet, slag roof, concrete floors, hot water heat, electric light, tile work, general interior alterations. Architect taking bids due as soon as possible.

**Bridge**, Freehold, N. J. Engineer, George K. Allen, Jr., 60 Broad street, Red Bank, N. J. Owners, Board of Chosen Freeholders, County of Monmouth, Bryant B. Newcomb, Director, Freehold, N. J. Bridge No. U-11, 26-foot I-beam span encased in concrete, sheet pile, reinforced concrete core wall. Owners taking bid due September 5th at 11 A. M. (daylight saving time). Deposit of \$10.00.

**Bridge (repairs)**, Freehold, N. J. Engineer, George K. Allen, 60 Broad street, Red Bank, N. J. Owners, Board of Chosen Freeholders, County of Monmouth, Bryant B. Newcomb, Director, Freehold, N. J. Repairs and additions to steel trusses of Bridge No. Rel, Keyport, length 670 feet, width 24 feet. Owners taking bids due September 5th at 11 A. M. (daylight saving time).

**Office Building**, Third and Market streets, Camden, N. J. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Mr. Marcouse, care of architect. Architect taking bids due September 7th.

**Trestle**, Plainfield, N. J. Engineer, Alexander W. Vars, Plainfield, N. J. Owners, Common Council, City of Plainfield, City Hall, Plainfield, N. J. Concrete and steel railroad trestle, 100 feet long, 15 feet high, with retaining wall 60 feet long and 15 feet high. Owners taking bids due September 4th at 8.30 P. M. (daylight saving time).

**Road Work**, New Jersey. Engineer, George K. Allen, Jr., 60 Broad street, Red Bank, N. J. Owners, Board of Chosen Freeholders, County of Monmouth, Bryant B. Newcomb, Director, Freehold, N. J.

Reconstruction of Riverside Drive, Road No. 52, Section 1, reinforced concrete pavement. Deposit of \$10.00.

Reconstruction of Red Bank-Oceanport Road No. 45, Section 1, reinforced concrete pavement. Deposit of \$10.00. Owners taking bids due September 5th at 11 A. M. (daylight saving time).

**Road Work**, Route 8, Section 4-A, Charlottesville-Newfoundland Road, Passaic and



Morris Counties, N. J. Owners, New Jersey State Highway Commission, Trenton, N. J. A. Lee Grover, Chief Clerk, Trenton, N. J. Lowest bidder: R. D. Richardson, Scranton, Pa., \$2440,547.28. Route 14, Section 9, Ocean View-Seaville Road, Cape May County, N. J.; lowest bidder, William Eisenberg, Smith-Austermuhl Building, Camden, N. J., \$197,688.74. Route 16, Section 5, Somerville-Woods Tavern Road, Somerset County, N. J.; lowest bidder, J. F. Chapman & Son, Hillside, N. J., \$257,656.18.

## New Jersey Contracts Awarded

**Hotel**, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owner, D. Innelli, care of architect. Fireproof, 6 stories, 50x90 feet, composition roof, pine floors, hot water heat, electric light, metal lath, tile work. Contract awarded to Wilbert Beaumont, 1 South Tennessee avenue, Atlantic City, N. J.

**Factory (add.)**, Camden, N. J. Architects, Stone & Webster, Real Estate Trust Building, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Reinforced concrete, brick, steel, 8 stories, 60x400 feet, steam heat, electric light, rolled steel skylights, fire doors, floor hardener, waterproofing, roof ventilators, elevators, cement floors, slag roof. Contract awarded to Stone & Webster, Real Estate Trust Building, Philadelphia.

## Delaware Construction News

**Apartment (alts. and add.)**, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, name withheld, care of architect. Brick, 3 stories, 20x12 feet, slag roof, general interior alterations. Plans in progress.

**Parish House (alts. and add.)**, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Presbyterian Church, care of architect. Stone, 2½ stories, 44x100 feet, hot water heat, electric light, tile roof, hardwood floors, tile and marble work. Architect taking revised bids due September 6th.

**Residences (6)**, Union Gardens, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, J. A. Bader, Wilmington, Del. Brick, 2 stories, 15x40 feet, slag roof, pine floors, hot water heat, electric lighting. Owner will build.

**Road Work**, Delaware. Owners, State Highway Department, Dover, Delaware. Owners taking bids due September 19th at 2 P. M. Each proposal must be accompanied by a surety bond, certified check or money to the amount of 10 per cent. of total amount of proposal. Deposit of \$10.00 required. Refunded upon return of plans and specifications.

Contract No. CK18, 0.622 miles through Clayton. 1,800 cubic yards excavation, 1,100 cubic yards cement concrete pavement, 10 cubic yards Class A concrete, 200 pounds reinforcement, 60 lineal feet 12-inch C. I. pipe, 60 lineal feet 24-inch R. C. pipe.

Contract No. CS26, 2.16 miles Clark's Cross Roads, Bridgeville. 7,000 cubic yards excavation, 150 tons broken stone base course, 3,250 cubic yards cement concrete pavement, 60 cubic yards Class A concrete, 1,200 pounds reinforcement, 300 lineal feet 15-inch R. C. pipe, 100 lineal feet 18-inch R. C. pipe, 60 lineal feet 24-inch R. C. pipe.

Contract No. CS29, 1.00 mile through

Greenwood. 3,200 cubic yards excavation, 40 tons broken stone base course, 2,375 cubic yards cement concrete pavement, 30 cubic yards Class A concrete, 300 pounds reinforcement, 300 lineal feet 15-inch R. C. pipe.

## Delaware Contracts Awarded

**Residences (4)**, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, Culver Thatcher, Industrial Trust Building, Wilmington. Brick, 2 stories, 22x30 feet, composition roof, hot water heat. Contract awarded to Peter W. Newell & Sons, Wilmington, Del.

**Garages (2)**, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, name withheld. Brick, 1½ stories, 20x30 feet, and 1 story, 50x100 feet, slag roof, concrete floors slag roof, rolled steel sash. Contract awarded to J. A. Bader & Co., Wilmington, Del.

## Miscellaneous Construction News

**Bank and Apartment**, Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owners, Commercial State Bank, K. E. Cline, Frederick, Md. Fireproof, 3 stories, 90x32 feet, composition roof, marble, hardwood and cork tile floors, electric light, metal lath, tile and marble work, iron grill, rolled steel skylights, bank fixtures, ornamental iron work. Owners taking sub-bids.

(Continued from Page 548)

which may be employed to this end. The most important, and, it is believed, the most effective plan is that for the development of an adequate number of craftsmen through the apprenticeship system now being developed by the apprenticeship commission of the New York Building Congress.

This Commission is composed of architects, employers, and labor members, who are trying to solve this problem by:

1. Inducing a sufficient number of capable young men to enter the building trades.

2. Encouraging employers to employ their quota of apprentices.

3. Striving to create co-operative effort in providing each of these apprentices with steady employment through his apprenticeship period.

4. Attempting to provide through collective efforts of educational authorities, employers', and employees' associations, a thorough training that will insure for the future craftsmen worthy of the name.

The board of education is assisting the apprenticeship commission by furnishing instruction in classes in the evening vocational schools.

The apprenticeship commission, acting as a central employment office, has been successful in keeping all apprentices at work by having employers send to this office when they are in need of an

apprentice, and by having all apprentices apply at this office when they are out of work. Boys seeking to enter the various trades also apply at this office and are placed in positions as apprentices in the industry.

Both employers and labor are now giving attention and some measure of support to this work in which they have heretofore not completely co-operated. In most trades the quota of apprentices allowed by the unions is much greater than the number in the service of the employers. On the other hand, in some cases employers have requested more apprentices than the unions permit them to have. But if the employers in the building industry will take on the full number of apprentices to which they are entitled under their trade agreement, keep them steadily employed, and insist on the apprentices attending the classes in the evening vocational schools for their technical training for the various trades of the building industry, the first important step will have been taken to provide mechanics for the future.

Another important step would be to make possible the employment of all available mechanics in the work for which they are fitted regardless of where they have been trained. Under existing restrictions in New York it is not possible for certain men who may be properly trained by the New York Trade School, the Y. M. C. A. and other schools to enter the trade which they wish to take up and in which they are so urgently needed at present. Their admission would give them an opportunity to better themselves in trades where additional mechanics are badly needed but are not available, and to benefit the public by their employment.

Increase in the number of men is not more important than increase in the efficiency of the men now available for work. Relief through this channel can be secured in a number of ways. At present jurisdictional trade regulations define and restrict the kind of work a man may do. Consequently they increase largely the number of trades and the number of men required for a given operation. An increase in the cost of the work and in the time required for its execution necessarily results. Out of these restrictive regulations grow jurisdictional strikes which delay work and cause widespread unemployment of labor. A reasonable modification of these restrictions can be made an important source of relief, not only to the public, but to the workers as well, because their employed time could be largely increased, and periods of unemployment minimized, by permitting the mechanic to do whatever work he could do properly.



Consideration should also be given to the repeated statements by builders that the individual output on the part of the workmen has been greatly reduced, not only below the normal work standard of the men now employed, but far below the production of men similarly engaged in previous years. It is desirable that the facts in this phase of the difficulty be ascertained as far as possible and that working conditions fair to all concerned be established.

In many of the detail operations of building construction it is possible, through the introduction of machinery, to reduce the cost by increasing the output, by shortening the time required by the process, or by reducing the number of men necessary to secure a given result. The failure to improve methods in use is due in some cases to lack of enterprise; in others, to the restrictive regulations of labor unions. The critical shortage in man-power will be measurably relieved by the use of machine-power by which cost will be reduced and time will be saved. These possible economies should have the study and the support of all concerned.

During several months of the year composite New York employs only 50 per cent. of its available workmen. In March and April the New York that wants to build gets busy and then, for six months, as now, it has more work than men, and carries on in a frenzy of delays, high expenditure, and makeshifts. Last year the committee on seasonal employment of the New York building congress recommended that, so far as possible, building work be carried on during the dull periods of employment. This procedure would "reduce non-productive expense and waste, and increase production, as a result of having skilled help available instead of relying on incompetent workmen. It will eliminate excessive labor expense, lower the cost of materials, and decrease the contractor's margin of profits, as he prefers to keep his organization in employment as steadily as possible. The advantages are many, and the benefits go to the community generally, as they are incidental in their value to labor, employer and owner."

A further study of the records showed that building permits are issued in New York in the largest number during Spring and Summer months, that contracts throughout the country are usually let at that time, and that repairs are made by landlords and owners during the time when the demand on the industry is at its peak.

The situation can be largely bettered by completion of buildings in advance of rental dates, by rearrangement of present rental dates, and by regulation of the time of carrying on government, state,

city, religious, and educational building construction. In general, all work which can be removed from the period of peak load should be done during the months which have heretofore been periods of comparative unemployment.

Sufficient records of facts to make possible accurate conclusions as to the reasons or remedies for the difficulties arising in the industry in New York are not now available. Careful investigation is required to measure the range of active and inactive periods, to determine the sources and to measure the supply of men, money, and materials; to ascertain the factors affecting the demand for different types of buildings; and to analyze the fluctuations in cost.

This survey can be made by competent investigators working under the direction of the New York Building Congress which, with some additional financial support, is prepared to go on with this work in the belief that the study will help to determine the causes of the extreme irregularity of building activity, and to indicate the possibility of anticipating and controlling its fluctuations.

Unless some degree of balance between supply and demand is reached and maintained in the building industry, existing difficulties related to the industry will not be removed. The architect of the school board has brought the great program of school building of the City of New York to the attention of the committee of the public group and he is now actively endeavoring to arouse public interest in this enterprise. It is proposed to complete within the next two or three years over 100 schools which will probably cost not less than \$100,000,000. In spite of the efforts of the city officials responsible for this work, very little progress has been made on the buildings. Construction is far behind the program for completion and there has been no improvement in the rate of progress during the year. There is no reasonable ground for future improvement except through the falling off of the demand for other building work and a consequent release of men to the schools.

The deplorable state of housing of those least able to meet the high cost of construction and the high rents has also been brought to the attention of the committee. Unhealthful conditions of life among a great many of the poor and an alarming increase in social evils have resulted. It has been urged that a proper public understanding of this situation would lead to prompt public demand for betterment. That there is public interest is evidenced by recent authorization of a state commission to study housing conditions and means of improvement, and by public discussion of the rent

laws, of the policy of tax exemption for certain types of residential buildings, and of the revelation of the Lockwood Committee.

Failure to secure schools and homes is so vital to social welfare that it is proper to consider the need of some measure of regulation. A declaration of the prior right of certain types of buildings in each community in accordance with its needs may be necessary. It has been suggested that this control can be secured by agreement of the loaning institutions as to the type of construction which would be most helpful.

In contrast with this plan, which assumes the existence of some element of self control in the industry, one of the labor delegations which met the committee of the public group urged immediate government intervention in the building crisis to secure the continuance of only the most necessary work. It was the opinion of labor in this instance that only public authority could prevent a continued housing shortage, high rents, low wages or unemployment, and a business depression followed by a violent rise in costs.

All who are concerned with the building industry should recognize that conditions this year have not been such as will promote its prosperity. These conditions must be improved by those directly connected with the work, or by a public whose interest is at stake. In the protection of that interest it may become necessary to adopt measures which may now be thought drastic, but which, under the continued pressure of failure to secure relief otherwise, would be found essential.

From the circumstances attending the organization and the work of this committee, those directly engaged in building work may observe the necessity of bringing about such a measure of stability as will avoid the introduction of what one builder of many years' experience described as "some body strong enough to tell us what we have to do."

The committee of the public group is of the opinion that such stability has not yet been arrived at, and that without constructive action New York will still have to deal with the difficulties which the building industry has encountered this year. The large potential building program for 1924 should not find New York hobbled by a continuance of these conditions.

R. H. SHREVE,  
Chairman.

**An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.**



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CEMENT.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....1310 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc..1844 N. Front St., Phila.  
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.  
Richardson & Boynton Co. ....1308 Arch St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## GRATES.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Riddle, Wm. H. ....1110 S. 31st St., Phila.

## HEATERS (Hot Water Service)

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

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September 5, 1923

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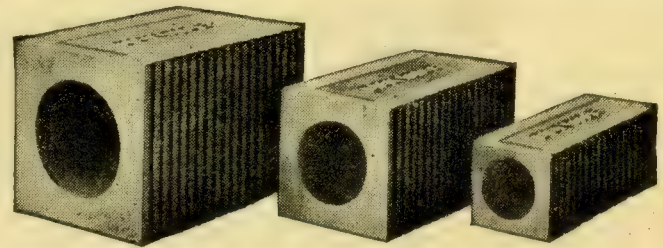
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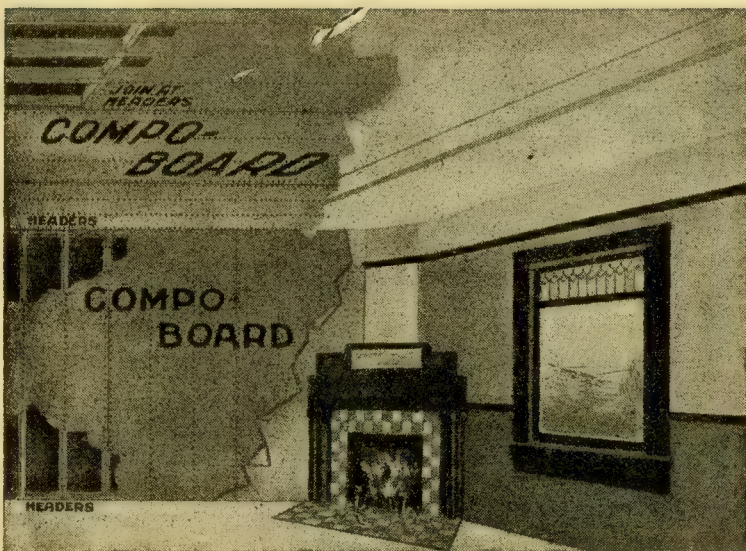
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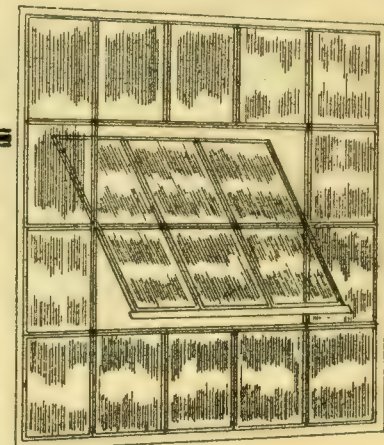
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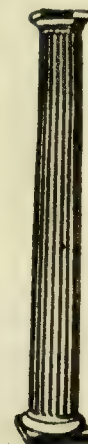
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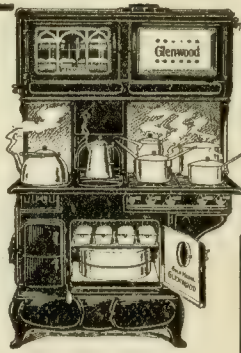


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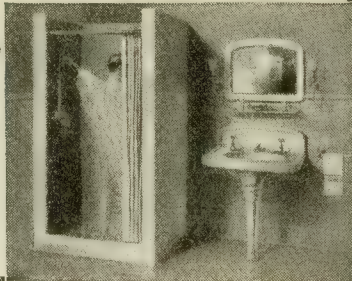
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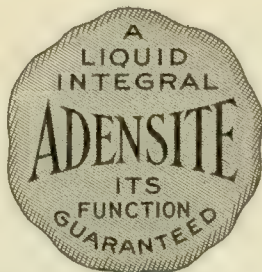
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VOLUME XXXVIII  
Number 36

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

PHILADELPHIA  
September 5, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### HOUSING NEGRO MIGRANTS

*Excessive Negro Migration—Not a  
Racial Question*

The Philadelphia Housing Association feels that the recent report of the Committee on Negro Migration is so startling from the housing standpoint that it deems it advisable to call the attention of the public to the housing facts disclosed by this study.

In presenting this material it may be well to state that the Migration Committee does not consider this a racial question, but one of general public significance. There is no difference between this problem, and the problem confronting the large mass of small-wage earners who have been driven to congested occupancy because of an inadequate supply of small houses.

The Housing Association goes a step further and urges the public to heed the Migration Committee's emphasis in this matter and not think the problem is a racial one. The same unfortunate situation would arise were this a European immigration. Only the present immigration laws, restricting the number of newcomers to the United States, is preventing a European influx today.

*Negro Migrants Increase Philadelphia's  
Population 10,500 in One Year*

The report of the Migration Committee states that:

"A study conducted during the past

three months, which covered 931 properties and 1,282 Negroes recently arrived from the South, revealed that Southern Negroes are migrating to Philadelphia in increasing numbers. The number coming to Philadelphia for the year ending June 30, 1923, approximates 10,500 persons. This is about one-third of Philadelphia's normal population yearly increment for all races, and compared with the normal yearly increment of Negro inhabitants based on records of the previous decade, is an increase in the annual gain in such population of 200% over the past year.

#### *Migrants of a High Type*

"Apparently proximity to the North is a factor in this migration, for the largest numbers have come from Virginia, Georgia, North Carolina and South Carolina in the order named.

"These migrants are apparently of a higher grade than those of previous migrations. About 90% of the adults are Churchmembers, and about 36% belong to fraternities having welfare and benefit features. This, besides indicating the type of the migrating individuals, also offers some assurance against pauperism and distress.

"They are not coming from the South in droves, but are rather drifting in; they are being met by their friends and relatives; the workers are coming first, and their families follow later. All seem to have steady work and many have ready

funds with them. Their services are being quickly utilized in industry. These migrants are not presenting an industrial problem to Philadelphia, for their labor is an asset.

#### *Housing and Health the Big Problems*

"The big outstanding problems created by the influx arise from the inadequate housing facilities and the health menace through overcrowding. Many families are going into dwellings already occupied, while others are taking up residence either as tenants in one or two rooms, or as lodgers.

"A spot map giving locations of these families shows an overwhelming majority between Girard and Washington Avenues from the Delaware to the Schuylkill Rivers, with others settling in Negro centers in West Philadelphia, Germantown and South Philadelphia. In the middle city area where multiple occupancy is more prevalent than elsewhere in Philadelphia, many of these newcomers have been taken into houses already overcrowded. One four-room house was found occupied by four new families, one family consisting of a man, his wife and six children. Another six-room house was found with five families, and within two weeks the house next door, which had been occupied by one family, had increased to three-family occupancy. Above a small West Philadelphia garage a migrant rented a single room for herself, an adopted son, three married children,

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and their children, making a total of 16 persons. The house has neither yard nor toilet, and filth and waste are thrown into an open lot adjoining. In many of the houses thus converted to multiple occupancy the sanitary equipment is sub-standard, and does not comply with City Housing Laws.

#### *Overcrowding and Sickness*

"Besides the moral hazard of such overcrowding, there is a grave hazard to individual health and to the health of the entire city. No better evidence is needed to show the persistent menace from such overcrowding than the almost superhuman efforts which the Division of Medical Inspection, Bureau of Health, has put forth to prevent the development of a small-pox epidemic threatened by the recurrence of small-pox cases among colored migrants in overcrowded and insanitary houses. Within seven months the Medical Inspectors have been obliged to quarantine 42 different districts and to vaccinate every unvaccinated resident. Every one of the small-pox cases found in these districts was a Negro recently come from the South. In one house occupied by 38 recent arrivals, 7 cases were found. In another house occupied by forty people, 7 cases of small-pox were found, and still in another house 8 cases were found. In one section which was quarantined there were 500 unvaccinated persons, and in another section there were 300 such persons, mixed population, as compared with the average number of unvaccinated persons of all races, varying from 125 to 175 persons per quarantine. Many of these Negroes come from localities where vaccination is not enforced as it is in Philadelphia. It is felt that a more rigid enforcement of vaccination at the source of migration will materially reduce the problem here.

#### *Indefatigable Guardians of Public Health*

"The city does not appreciate and cannot estimate the saving to Philadelphia from this loathsome disease which the City Medical Inspection, through its quarantines, has attained. The protection which has saved Philadelphia from a serious outbreak of small-pox is this efficient work of the Health Department, for Philadelphia's culpable neglect of the housing conditions in congested sections practically presents culture centers for the development of plagues.

"The 42 small-pox cases widely separated were not all brought here from the South, but developed among Southern negroes after they reached Philadelphia, through contact with cases, this contact arising through congested occupancy. Philadelphia cannot afford to assume a state of security which does not exist.

#### *Recommendations of the Committee*

"Although many social agencies and Churches are awake to the problem and

are doing all that it is possible for them to do for the newcomers, the Committee feels that the real responsibility falls on the city's shoulders, and the action that can give a great benefit to these migrants and to the entire city must come from the municipal government.

"This survey showed the inspection service to locate insanitary occupancy to force its correction is woefully inadequate. Five inspectors, the full force of the Housing Section, have been assigned to this task. The same number worked on the housing force in 1909. The city has increased almost 400,000 in population and has built about 75,000 new houses since then, while the listed tenements, only a fraction of the total tenements occupied, have increased over 70%. But the inspection force to handle these properties and the insanitation attendant upon the added congestion of the past 5 years has not been increased. This inspection service refunds to the city a large part of its cost, and there is little excuse for not maintaining it on a par with the need. The problem is one that calls for prompt acquiescence by City Council to the request of the Department of Health for more inspectors.

"A second step is one that must be taken by the public at large. Philadelphia, for her own protection, must provide adequate housing for these families of small means who are unable to pay the high rentals now being asked and those others who can pay but cannot find houses to rent. Because of labor shortage these Negroes are much needed in Philadelphia. If the commercial builder does not find it to his advantage to build low cost houses, it would certainly be an advantageous proposition for the employers of this new labor to work out a program for such dwelling construction."

To the Philadelphia Housing Association, conscious of the increasing congestion of Philadelphia dwellings due to normal population growth these findings of the Migration Committee seem most timely. The city is not reducing its housing shortage. Operative builders are engaged in commercial production just as much as any manufacturer. The brunt of the responsibility for constructing small houses does not rest with them. If it rests anywhere it falls on the shoulders of that body of enlightened citizenship, intelligent enough to recognize a civic problem, and financially able to meet it. Comparatively low cost houses can be built today without a loss if the heavy cost of financing construction can be overcome by direct capital investment.

There is an opportunity here also for the Negro banks, building and loan associations, and Negro social leaders to come forward and through a building corporation construct small cost houses for their own people.

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Department Store**, Northeast Corner Eleventh and Market streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Frank & Seder, on premises, and Pittsburgh, Pa. Concrete, steel, brick, 4 stories, 100x200 feet, slag roof, hardwood and composition floors, tile, marble and terrazzo work, fire doors, iron stairs, terra cotta, roof ventilators, elevators. Plans in progress.

**Stores (4), Apartments (6)**, Southwest Corner Fifteenth and Catherine streets, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Landers, Sixteenth and Christian streets, Philadelphia. Brick, 3 stories, 33x80 feet, remodeling of one dwelling, slag roof, pine floors, steam heat, electric light, tile and marble work, metal ceiling, steel work, metal bulks. Revised plans in progress.

**Store and Apartments (alts. and add.)**, 1511 Foulkrod street, Philadelphia. Architect, Edwin Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, G. Thiele, care of architect. Brick, 2 stories, 15x15 feet, 30x15 feet, hot water heating, electric light, slag roof, hardwood and composition, tile and marble work, copper bars, plate glass. Plans in progress. Architect will be ready for bids in 3 weeks.

**Residence (alts.)**, 2010 North Broad street, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, J. F. McGinty, on premises. General alterations to 4-story building, steam heat, electric light, tile and marble work, hardwood floors, closet beds, built-in kitchens, copper bulks, plate glass, structural steel, fire towers. Plans completed. Owner will be ready for sub-bids in one week.

**Apartment House (alts.)**, Nineteenth and Fairmount avenue, Philadelphia. Architect, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, W. A. Dunlap, Nineteenth and Fairmount avenue, Philadelphia. Brick, 4 stories, 1 and 2 stories add., irregular size, heating and lighting extensions, slag roof, pine and hardwood floors, tile and marble work. Architect will be ready for general bids in one week.

**Store and Apartment (alts. and add.)**, Thirtysixth and Woodland avenue, Philadelphia.

Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 3 stories, 16x20 feet, hot water heat, electric light, slag roof, pine and composition floors. Architect will be ready for bids in one week.

**Church**, Seventh street and Northeast Boulevard, Philadelphia. Architect, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. W. C. Sandt, 5203 North Carlisle street, Philadelphia. Stone and cast-iron, slate and slag roof, cement and pine floors, steam heat, electric lighting, iron work, terra cotta. Architect ready for bids.

**Residences (27)**, Nedro, Lambert and Woodstock streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. H. Parker, 815 Cheltenham avenue, Philadelphia. Brick and stone, 2 stories, 16x36 feet, hot water heat, electric light, slag and tin roof, hardwood and pine floors. Owner ready for sub-bids.

**Residences (144)**, Sixty-fifth avenue and Tenth street, Oak Lane, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Philip Robin, 3334 Harbold street, Philadelphia. Brick and stucco, 3 stories, 20x38 feet, hot water heat, electric light, metal lath, tile and marble work, slate roof, hardwood floors, cement work, garages in basement. Owner will be ready for sub-bids in one week.

**Operations of Stores and Apartments**, Chew and Hottter streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Harry Parker, 815 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 16x54 feet, hot water heat, electric light, slag, slate, tin roof, hardwood and pine floors, hollow metal skylights, tile and marble work, plate glass. Owner taking sub-bids.

**Garage (alts. and add.)**, 3411 Sunnyside avenue, Philadelphia. Architects, Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia. Owners, Edward Furman, care of architect. Brick, steel, 56 feet 8 inches x 55 feet 2 inches, slag roof, concrete floors, iron work, hollow metal skylights, hot water heat, electric light. Curtis Grindrod Co., Fuller Building, taking sub-bids.

**Stores (4) and Apartment Building**, West

Chester Pike and Lynn Boulevard, Highland Park, Pa. Architect, Curtis Grindrod, Fuller Building, Philadelphia. Owners, Cross, Silverberg & Rosenwald, care of architect. Brick and limestone, 2 stories, 75x64 feet, hot water heat, electric lighting, slag roof, tile and hardwood floors, tile, marble and terrazzo work, iron stairs. Curtis Grindrod, Fuller Building, Philadelphia, taking sub-bids.

**Theatre (moving picture)**, Rising Sun avenue and Loudon street, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Felton Theatre, care of Samuel Shapiro, on premises. General alterations, steam heat, electric lighting, cement and pine floors, marble work, ornamental plaster. Architect will be ready for bids in one week.

**Louis Eisenlohr Memorial Home for Nurses**, Broad and Wolf streets. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Methodist Episcopal Hospital, on premises. Brick, reinforced concrete, limestone, 4 stories, 92 feet, 8 inches x 36 feet, 4 inches, vacuum heat, electric light, metal lath, slate, tile, marble and terrazzo work, rolled steel sash, kalamein and hollow metal doors, iron work, waterproofing and dampproofing, metal weather strip, tile, pine and oak floors, composition and tile roof. Architect taking bids due September 20th.

**School (add.)**, Twenty-third and Federal and Manton streets, Philadelphia. Architect, I. T. Catherine, Board of Education, Nineteenth above Chestnut street. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, steel, reinforced concrete, granite, cut stone, 3 stories and basement, 111 feet, 5 inches x 35 feet, 3 inches, 131 feet x 36 feet, 9 inches, 2 fire towers, 20 feet, 6 inches x 10 feet, 6 inches (plumbing, heating and electric reserved), composition and slate roof, cement, asphalt, mastic, oak floors, hollow tile, metal lath, roof ventilators, architectural terra cotta, waterproofing and dampproofing, iron stairs, fire doors, marble and slate work. Asbestos moving picture booth. Owners taking bids due September 6th at noon.

**Bank and Office Building (interior finish)**, Southwest Corner Fifteenth and Chestnut streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Trust Co., C. A. Harris, Jr., president, 20 South Fifteenth street, Philadelphia. First and second floors, basement and sub-basement, brick steel and manufacturing stone, 138x79 feet, rubber tile, cement floors, hollow tile, metal lath, elevators, iron stairs and work, tile and marble work, electric light, steam heat. Owners taking bids due September 11th.

**Philadelphia High School for Girls (fire tower)**, Seventeenth and Spring Garden streets. Architect, I. T. Catherine, Nineteenth above Chestnut streets, Philadelphia. Owners, School Board of Philadelphia, Nineteenth above Chestnut street, Philadelphia.

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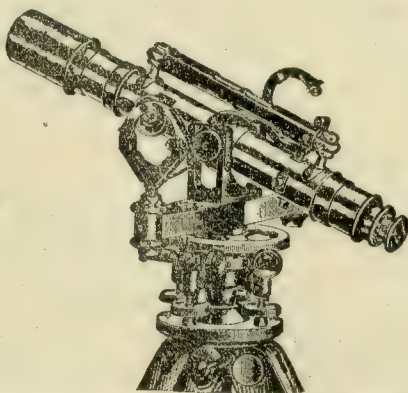
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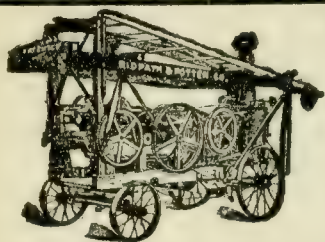
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**Store and Apartments (alts. and add.),** 8616-18 Germantown avenue, Chestnut Hill, Pa. Architect, A. H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Miss E. M. Huston, 8616-18 Germantown avenue, Philadelphia. Brick, steel, 2 stories and fire tower, 40x32 feet, hot water heat, electric light, tile and marble work, rolled steel sash, kalamein doors, store fixtures, dumb waiters, roof ventilators, elevators, slag roof. Architect taking bids due September 13th.

**Garage,** Howard and Tusculum, Philadelphia. Architect, Karl F. Otto, 3 North Nineteenth street, Philadelphia. Owner, J. S. Terzian, 2938 North Howard street, Philadelphia. Brick, 1 story, 26x35x7 feet, slag roof, cement floors, electric light, rolled steel sash. Architect taking bids due as soon as possible.

**Store and Apartment,** Fifty-second and Locust streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, W. Osmond, care of architect. Brick, 3 stories, 15x15 feet, slag roof, pine floors, electric light (heating and plumbing reserved), plate glass, plastering, flush bulks. Architect taking bids due as soon as possible.

**Bank,** 2728 East Allegheny avenue, Philadelphia. Architects, Simon, Brittain & English, 929 Chestnut street, Philadelphia. Owners, Richmond Trust Co., care of M. C. Komorowski, president, on premises. Brick, limestone, steel, 1 story, 26x57 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, ornamental iron work. Owners taking bids due September 17th.

**Sherwood Playground,** Fifty-sixth and Chester avenue, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, 595 City Hall. General construction, grading and surfacing, proposal bond. Owner taking bids due September 11th, 12 noon (Standard time).

**Cohocksink Recreation Center,** Cedar and Cambria streets, Philadelphia. Architect, H. Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. General construction, including plumbing, heating, lighting, bond. Owners taking bids due September 17th, 11 A. M. (Standard time).

**Moylan Park,** Twenty-fifth and Diamond streets, Philadelphia. Improvement by plant-

ing. **Kenderton Park,** Twentieth and Ontario streets, Philadelphia. Improvement by planting. **Ontario Square,** Twentieth Ward, Philadelphia. Improvement by soil treatment, supplying and sowing grass seed, supplying and laying sod. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Owners taking bids due September 11th, 11 A. M. (Standard time).

**Residences (22),** Sixty-sixth avenue, Stenton avenue and Gerry street, \$177,000. Architect, private plans. Owner, Louis Swerdlhoff, 228 South Fifty-ninth street, Philadelphia. Brick, 2 stories, 15x43 feet, 30x30 feet, 18x20 feet, and (20) 15x31 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Manufacturing Building,** Northeast Corner A and Lehigh avenue, \$32,000. Engineers, Wilson Ruff & Co., Franklin Trust Building, Philadelphia. Owners, John Bromley & Son, on premises. Brick, 3 stories add. and basement, 45x100 feet, slag roof, steam heat. Engineers will build.

**Residences and Garages (22),** Southwest Corner Fifty-third and Berks streets, \$178,000. Architect, private plans. Owner, Harry Bobb, 6232 Cedar avenue, Philadelphia. Brick, 2 stories, (2) 15x48 feet and (20) 15x30 feet, 11x17 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (31),** Fifty-ninth and Windsor Terrace, Philadelphia, \$159,500. Architect, private plans. Owner, Harry Pepper, 523 Fernon street, Philadelphia. Brick, 2 stories, 17x43 feet, 19x34 feet and 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences and Garages (29) and Store,** Whitaker street, D street and Wyoming avenue, Philadelphia, \$169,000. Architect, private plans. Owners, Morrison, Clemence & Segal, D and Wyoming avenue, Philadelphia. Brick, 2 stories, 20x54 feet, (27) 15½x28 feet, 10x16 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will build.

**Residences (5),** Ditman and Magee streets, Philadelphia, \$4,000 each. Architect, private plans. Owner, Daniel J. Gerecke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x38 feet and d15x38 feet, slag roof, hot air heat, electric light. Owner will build.

**Garage,** West side Jefferson street, North of Duval, \$15,000. Architect, private plans. Owner, George Moehrle, 7261 Limekiln Pike, Philadelphia. Brick, 1 story, 64x28 feet, 36x172 feet, slag roof, cement floors, electric light. Owner will build.

**Shop (add.),** Southwest Corner Second and Luzerne streets, \$7,500. Architect, private

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plans. Owners, Connery & Co., on premises. Brick, 1 story add., 79x150 feet, slag roof, electric work. Owner will build.

**Residence**, North side Stanwood street, West of Jeanes street, \$6,800. Architect, private plans. Owner, Ralph A. Earl, 8109 Elberon avenue, Philadelphia. Frame, 2 stories, 20x38 feet, hot water heat, electric light, hardwood and pine floors. Owner will build.

**Residence**, East side Mitchell street, South of Parker avenue, \$6,500. Architect, private plans. Owner, Walter Dearden, 533 East Conarroe street, Philadelphia. Brick, 2 stories, 27x36 feet, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (4)**, West side Algard street, North of Glenview avenue, \$4,200 each. Architect, private plans. Owners, Holmesburg Granite Co., Holmesburg, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Residence and Store (add.)**, Northeast Corner York Road and Loudon street, \$3,500. Architect, private plans. Owners, S. & G. Felt, 1029 South Sixtieth street, Philadelphia. Brick, 2 stories add., 16½x23 feet, 8 inches. Owner will build.

**Residence**, South side Tinicum avenue, West of Ninety-first street, \$3,500. Architect, private plans. Owner, Tobias Arro, Northwest Corner Ninety-first and Tinicum avenue, Philadelphia. Brick, 2 stories, 17 feet, 8 inches x 30 feet, 17 feet, 8 inches x 10 feet,

hot air heating, electric lighting. Owner will build.

**Garage**, 2021 Arch street, Philadelphia, \$2,000. Owner, Benjamin Lang, on premises. Brick, 1 story, 18x36 feet, slag roof, cement floors. Owner will build.

**Apartment House**, Northwest Corner Thirteenth and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Thirteenth and Locust Streets Realty Co., on premises. Brick, steel, Indiana limestone, reinforced concrete, terra cotta, 12 stories, 115x33 feet, 6 inches, vacuum heat, electric light, tile, marble and slate work, rolled steel and hollow metal sash, fire and hollow metal doors, iron stairs, slag roof, cement and pine floors, hollow tile, elevators, metal window guards, waterproofing and dampproofing, terra cotta. Architect taking bids due September 14th.

**Miscellaneous Work**. Owners, Department of Public Work, Bureau of Highways, 232 City Hall. Grading, asphalt paving, redress granite block repaving, country road improving, material for repairs to bridges, constructing, dumping platform, oil burning equipment, grading for League Island Park Lake. Owners taking bids due September 11th, 11 A. M. (Standard time), Room 216.

**Schools (2)**, Fifth street and Sixty-fourth avenue and Lorretto, Fronterae, Stenwood and Arthur streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Stone, brick and steel. Plans in progress.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

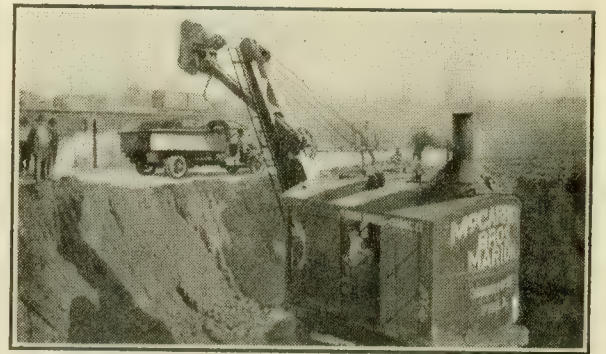
**Residence (alts. and add.)**, Chestnut Hill, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Carroll S. Tyson, Jr., 1900 Spruce street, Philadelphia. Brick, stone, 2 stories, 39x41 feet, 8 inches, 17 feet, 4 inches x 16 feet, vapor heat, electric lighting, metal lath, tile and marble work, hollow metal skylights, iron stairs and work, slag roof, hardwood floors. Contract awarded J. S. Cornell & Son, Morris Building, Philadelphia.

**Stores (6)**, Northeast Corner Thirty-fourth and Hamilton streets, \$11,200. Architect, W. L. Charr, 149 South Fourth street, Philadelphia. Owner, M. S. Marymor, care of architect. Brick, steel, 1 story, 16x18 feet, 6 inches, demolition, electric light, hollow metal skylights, store fixtures, bond, flush bulks, metal lath, pine floors, slag roof. Contract awarded Zimmerman Const. Co., 149 South Fourth street, Philadelphia.

**Store and Apartments (alts.)**, Southeast

Corner Twenty-second and Bolton streets, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, William L. Brandon, on premises. Brick, 3 stories, 15x56 feet, hot water heat, electric lighting, tile and marble work, store fixtures, metal bulks, plate glass, composition and pine floors, slag roof. Contract awarded Reliable Const. Co., 1439 Ridge avenue, Philadelphia.

**Alterations and Additions**, 5811 Germantown avenue, Philadelphia, \$8,400. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Carl Helmetag, on premises. Brick and stone, 1 story, 59x35 feet (plumbing, heating and electric re-



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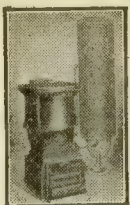
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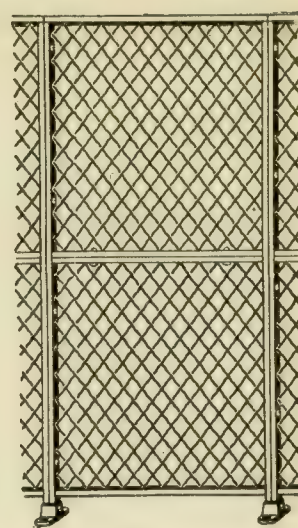
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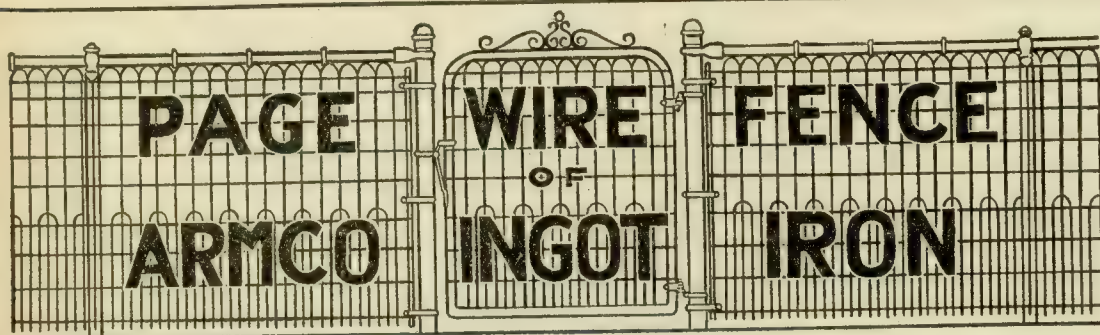


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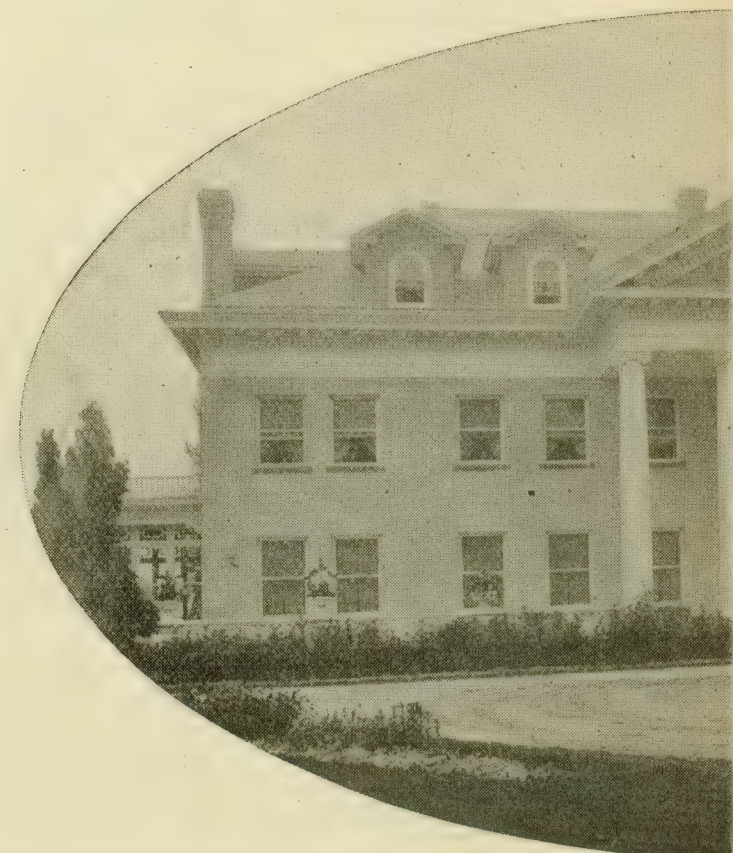
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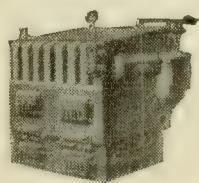
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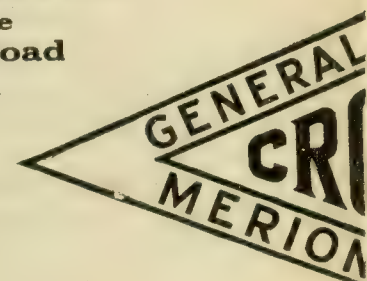
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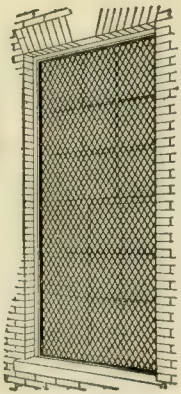


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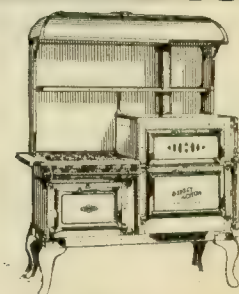
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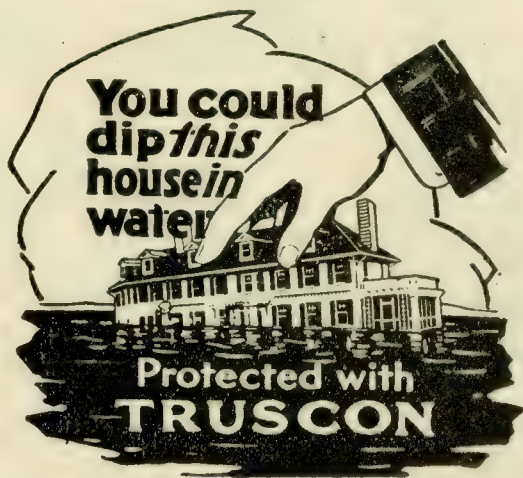
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served), slag roof, maple floors, tile work, rolled steel skylights. Contract awarded to H. P. Werner, 3245 Germantown avenue, Philadelphia.

**Residences (5)**, Shawnee street, near Chestnut avenue, Philadelphia, \$12,000 each. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, James H. Gay, 345 Pelham street, Philadelphia. Hollow tile and stucco, 2½ stories, 19x42 feet each, concrete, tile roof, hardwood floors, vapor heating, electric lighting, tile work. Contract awarded to Triangle Const. Co., 44 Armat street, Philadelphia.

**Store and Hall**, Southwest Corner Broad and Susquehanna avenue, \$30,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owners, Philadelphia Brewing Co., Sixth and Clearfield streets, Philadelphia. Brick, 2 stories, 344x89 feet, 8 inches, slag roof, hardwood and pine floors, electric lighting, store fixtures. Contract awarded to John Engel, Sixth and Westmoreland streets, Philadelphia.

**School (alts.)**, Northwest Corner Broad and Federal streets, \$10,000. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Rita's Roman Catholic Church, Rev. M. J. Corcoran, O. S. A., rector, on premises. Interior partition work, brick work, carpentry, mill work. Contract awarded to McLaughlin & McNally, Eighty-first street and Suffolk avenue.

**Swimming Pool**, East side Monument avenue, near Belmont avenue, Philadelphia. Ar-

chitects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Methodist Episcopal Orphanage, on premises. Reinforced concrete, 80x40x10 feet, monolithic finish floor, bond. Pool equipment. Contract awarded Turner Const. Co., 1713 Sansom street, Philadelphia.

**Residence**, East side Castor Road, North of Solly avenue, \$4,900. Architect, H. A. Rodell, Trevoise, Pa. Owner, Henry D. Strichner, 2458 North Jasper street, Philadelphia. Frame, 1 story, 24x50 feet, electric lighting. Contract awarded to H. A. Rodell, Trevoise, Pa.

**Residence and Garage**, Southeast Corner Roumfort Road and Ardleigh street, \$16,400. Architect, private plans. Owner, Ellwood Wentz, 6801 Sprague street, Germantown, Philadelphia. Stone, 2½ stories, 40x20 feet, 23x16 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Edward J. Heinke, Twelfth and Norris streets, Philadelphia.

**Store and Residence (alts. and add.)**, 4017 Lancaster avenue, \$10,500. Owner, Tony Silver, on premises. Brick, 3 stories add., 16x20 feet, 13x10 feet, general alterations. Contract awarded to H. Slavitt, 5136 Haverford avenue, Philadelphia.

**Residence**, West side Bustleton avenue, North of Faunce street, \$10,000. Architect, private plans. Owner, Charles Saake, Jr., 1212 North Tenth street, Philadelphia. Brick and frame, 2 stories, 22x32 feet, hardwood and pine floors, electric lighting, tile work.

Contract awarded to Henry Jungels, 5613 Hunter street, Philadelphia.

**Garage**, 4431 North Eighteenth street (rear), \$6,400. Architect, private plans. Owners, Aberherdt & Weise, on premises. Brick, 1 story, 16x98 feet, 20x9 feet and 17½x82 feet, slag roof, cement floors, electric work. Contract awarded to Clarence C. Campbell, 6419 Bingham street.

**Building (add.)**, 5123 Sansom street, Philadelphia, \$10,000. Architect, private plans. Owner, James S. Duffy, 114 South Fiftieth street, Philadelphia. Brick, second story add, 39x105 feet. Contract awarded to Harry G. Walters, 412 North Fortieth street, Philadelphia.

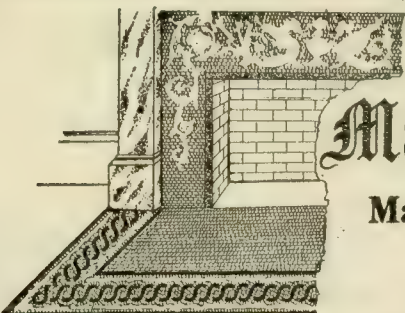
**Residence (add.)**, 240 Allen Lane, Philadelphia, \$7,500. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Mary D. Thayer, on premises. Concrete block, 2 stories add., 26x16 feet, electric lighting, general alterations. Contract awarded to James Riley & Son, Forrest avenue, Mt. Airy.

**Manufacturing Building (add.)**, West side River Road, North of Fountain street, Philadelphia, \$8,000. Architect, private plans. Owners, Philadelphia Paper Mfg. Co., on premises. Brick and concrete, 1 story, 33x53 feet, 16x78 feet, slag roof, cement floors, steel sash. Contract awarded to Hughes-Foukrod Co., Commonwealth Building.

**Residence**, North side Fanshawe street, West of Oakley street, \$6,000. Owner, John Corbett, 806 Magee street. Architect, private plans. Frame, 1 story, 28x44 feet, hot water heat, electric lighting. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

**Residence**, Southwest Corner Hegerman & Hellerman streets, \$5,000. Owner, George Wagner, 2409 Comly street, Philadelphia. Brick, 2 stories, 28x38 feet, hardwood and pine floors, hot water heating, electric lighting. Contract awarded to Harry Kuehnlein, 2046 Trenton avenue, Philadelphia.

**Residence (alts.)**, 119 South Nineteenth street, Philadelphia, \$4,800. Architect, J. W. Thompson, 703 South 60th Street, Philadelphia. Owner, Miss E. Gallagher, on premises. General alterations. Contract awarded to J. J. McCarthy, 6008 Osage avenue, Philadelphia.



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**Residence (alts. and add.),** 6402 Germantown avenue, Philadelphia, \$3,000. Architect, private plans. Owner, C. & E. Metzler, on premises. Brick, 1 story add., 9x14 feet, general alterations. Contract awarded to M. A. Greene, 1607 North Thirteenth street, Philadelphia.

**Garage and Residence,** 2325 North Fifty-second street (rear), Philadelphia, \$4,600. Architect, private plans. Owner, Mrs. Katharine Hellwig, on premises. Stone, 2 stories, 23x22 feet, cement floors, electric lighting. Contract awarded to James J. Moore, 6140 Nassau Road, Philadelphia.

**Residence (add.),** 917 South Tenth street, Philadelphia, \$3,500. Owner, G. Caoeca, 917 South Tenth street, Philadelphia. Brick, 3 stories add., 12x10 feet, electric work, slag roof. Contract awarded to E. Pagliaccitti, 612 Annin street, Philadelphia.

**Garage (add.),** North side Allengrove street, East of Darragh, \$3,000. Architect, private plans. Owner, Joseph Moss, 1652 Wakeling street, Philadelphia. Brick, 1 story add., 18x71 feet, cement floors, slag roof. Contract awarded to George W. Crosley, 5717 Jackson street.

**Garage,** East side Sixteenth street, South of Luzerne street, \$3,000. Architect, private plans. Owner, Leonard H. Cummings, 2442 North Marshall street, Philadelphia. Brick, 1 story, 31x58 feet, slag roof, cement floors, electric work. Contract awarded to Edward B. Miller, 3935 North Marshall street.

**Residence,** 4110 Lancaster avenue, Philadelphia, \$8,000. Architect, private plans. Owner, M. Goldenberg, on premises. Brick, 2 stories, 18x48 feet, 12x32 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Max Sklar, 628 Pine street, Philadelphia.

**Residence (add.),** 2625 Fillmore street, Philadelphia, \$3,900. Architect, private plans. Owner, Mrs. Helen Winkler, on premises. Brick, 2 stories add., 16x23 feet, alterations. Contract awarded to Felix Tatko, 2119 Pratt street, Philadelphia.

**Residences (2),** 3339-41 Salmon street, Philadelphia, \$3,800 each. Architect, private plans. Owner, Rose M. Schoppet, 3143 Edgemont street, Philadelphia. Brick, 2 stories, 16x32 feet, electric lighting, pipeless heating. Contract awarded to R. Underwood, 3143 Edgemont street, Philadelphia.

**Office and Residence (alts.),** 1633 Spruce street, \$3,600. Architect, private plans. Owner, Dr. O'Brien, 1431 Spruce street, Philadelphia.

Philadelphia. General alterations. Contract awarded to Robert Brace, 619 North Thirty-fourth street, Philadelphia.

**Store and Residence (alts. and add.),** 5720 Chester avenue, \$3,900. Architect, private plans. Owner, M. Spicho, 5720 Chester avenue, Philadelphia. Brick, 1 story, 14x6 feet, general alterations. Contract awarded to George Adams, 5905 Chester avenue, Philadelphia.

**Garage,** Northeast Corner Twenty-seventh and Allegheny avenue, Philadelphia, \$2,000. Owner, Hazel E. Seese, 2438 West Allegheny avenue, Philadelphia. Brick, 1 story, 16x20 feet, sag roof, cement floors, electric work. Contract awarded to L. A. Broome, 1820 North Twenty-fourth street, Philadelphia.

**Business Building (alts.),** 4450-60 Main street, Philadelphia, \$2,500. Architect, private plans. Owner, William M. Henry, Broad and Westmoreland streets, Philadelphia. General alterations. Contract awarded to David Rothstein, 2014 Diamond street, Philadelphia.

**Garage,** 2868-70 East Venango street (rear), Philadelphia, \$2,300. Architect, private plans. Owner, Alex. Konopka, on premises. Brick, 1 story, 35½x26 feet, slag roof, cement floors. Contract awarded to N. Carter, 713 North Eighth street, Philadelphia.

**Building (alts.),** 506 Cuthbert street, Philadelphia, \$3,000. Architect, private plans. Owners, Supplee-Biddle Hardware Co., 507 Commerce street, Philadelphia. Elevator shaft. Contract awarded to William Easterbrook, 146 North Fourth street, Philadelphia.

**Warehouse (alts. and add.),** 1924 Hart Lane, Philadelphia, \$2,500. Architect, private plans. Owner, Fred Franks, 2937 Kensington avenue, Philadelphia. Brick, 2 stories add., 15x15 feet, general alterations. Contract awarded to Taylor & Nicholas, 2628 Braddock street, Philadelphia.

**Residence (add.),** 1156 East Passyunk avenue, Philadelphia, \$2,275. Architect, private plans. Owner, Zuseppi Benni, on premises. Brick, 3 stories add., 13½x21 feet. Contract awarded to C. Izzo, 2202 South Bouvier street, Philadelphia.

**Residence and Store (repairs),** 712 Dickinson street, \$2,100. Architect, private plans. Owner, Salvatore Randazzo, Northwest Corner Eighteenth and Dickinson streets, Philadelphia. General fire repairs. Contract awarded to Samuel Goldberg, 2446 South Eighth street, Philadelphia.

**Building (alts.),** 2940 Frankford avenue, Philadelphia, \$2,000. Architect, private plans. Owner, S. Hyman, Fifth and Lehigh avenue, Philadelphia. General alterations. Contract

awarded to G. J. Reich, 5126 North Tenth street, Philadelphia.

**Store and Storage Building (add. and alts.),** 2930 Germantown avenue, \$7,500. Architect, private plans. Owner, M. Rebah, 3032 Germantown avenue, Philadelphia. Brick, 2 stories add., 18½x7 feet, general alterations. Contract awarded to F. & S. Const. Co., 554 North Sixteenth street, Philadelphia.

**Residence (add.),** 2929 D street, Philadelphia, \$3,500. Architect, private plans. Owner, Mortimer Cook, on premises. Brick, 2 stories add., 13x35 feet, electric work, alterations. Contract awarded to E. J. Gilbert, 3341 D street, Philadelphia.

**Garage,** 109 Cuthbert street, Philadelphia, \$3,000. Architect, private plans. Owner, W. J. Perkins, on premises. Brick, 1 story, 38x50 feet, slag roof, cement floors. Contract awarded to D. F. Woodoth, 216 Quarry street, Philadelphia.

**Residence and Shop (add.),** 1525 Wood street, Philadelphia, \$2,600. Architect, private plans. Owner, Paul Toth, 701 North Eleventh street, Philadelphia. Brick, 1 story add., 16x16 feet, pine floors, electric work. Contract awarded to I. Dando, 855 North Fifth street, Philadelphia.

**Residence and Store (add.),** 4942 York Road, Philadelphia, \$2,500. Architect, private plans. Owner, Frank Moy Chong, on premises. Brick, second story add., 14x35 feet, general alterations. Contract awarded to N. Nardy & Co., 1713 Sansom street, Philadelphia.

**Garage,** West side Seventy-fifth street, South of Buist avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Myer Saltzman, on premises. Brick, 1 story, 51x16 feet, slag roof, cement floors. Contract awarded to Edward Gray, 2615 South Seventy-fifth street, Philadelphia.

**Loading Platform,** 1223 Washington avenue, Philadelphia, \$2,170. Architect, private plans. Owners, General Electric Co., Schenectady, N. Y. Timber, rubberoid roofing. Contract awarded to A. R. Raff Const. Co., 1635 North Thompson street.

**Dye House (rebuilding roof),** Northwest Corner Worth and Kinsey streets, \$15,000. Architects, Staerns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Globe Dye Works, on premises. Slow burning const., slag roof. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Residences (alts. and add.),** 327 South Camac street, Philadelphia, \$2,000. Architect, private plans. Owner, Thomas K. Ober, 509 Crozer street, Philadelphia. Brick, 1 story front add., 6x8 feet, and 1 story rear add.,

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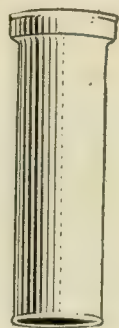
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8x13 feet, mill work, slag roof, plumbing, hot water heat, electric work. Contract awarded to E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

**Moving Picture Theatre (alts.)**, East side Fifth street, North of Cambria, \$2,000. Owners, Fernman & Siltzer, Fifth and Cambria streets, Philadelphia. General alterations. Contract awarded to G. J. Reich, 5126 North Tenth street, Philadelphia.

**Garage**, Northeast Corner Oak Lane and Lawnton avenues, Philadelphia, \$3,000. Architect, private plans. Owner, H. H. Landis,

Oak Lane and Lawnton avenues, Philadelphia. Brick, 2 stories, 24½x26 feet, cement floors. Contract awarded to C. E. Lloyd, Jr., 6600 North Eighth street, Philadelphia.

**Garage**, 3411 Powelton avenue, Philadelphia, \$2,500. Owner, Samuel Willig, 407 Lincoln Building, Philadelphia. Brick, 1 story, 52x20 feet, slag roof, cement floors, electric work. Contract awarded to Harry Platt, 1627 Sansom street, Philadelphia.

**Residence**, South side Grovers avenue, West of Eighty-fifth street, \$2,400. Architect, private plans. Owner, Horace Hammond, 8553 Laycock avenue, Philadelphia. Brick, 1 story, 15x35½ feet, slag roof, electric work. Contract awarded to Henry Williams, 8603 Gibson avenue, Philadelphia.

**Garage**, Rear 2524-26 North Twenty-seventh street, Philadelphia, \$2,000. Owner, A. Felman, 2524 North Twenty-seventh street, Philadelphia. Brick, 1 story, 30x30 feet, slag

roof, cement floors. Contract awarded to L. H. Eckard, 6906 North Broad street, Philadelphia.

**Garage (add.)**, 510 North Sixty-first street (rear), Philadelphia. Owner, Mary Brenner, on premises. Brick, 1 story, 16x40 feet, cement floors. Contract awarded to Morris Hoffman, 4908 Brown street, Philadelphia.

**Residence (alts.)**, 5116 Walton avenue, Philadelphia, \$2,000. Architect, private plans. Owner, M. Schwalbe, 27 City avenue, Bala, Pa. General alterations. Contract awarded to A. M. Tatro, 1345 Arch street, Philadelphia.

**Store and Factory (alts.)**, 18 North Third street, Philadelphia, \$1,200. Owner, J. Maimon, care of builder. Interior alts., mill work, painting and glazing, brick work, electric work, iron work. Contract awarded Katz & Kleiman, 520 West Moyamensing avenue, Philadelphia.

## PENNSYLVANIA

# Construction News

**Undertaking Establishment, Apartment and Garage (alts. and add.)**, New and North streets, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Laramy & Riegel, 16 Broad street, South Bethlehem, Pa. Brick, third story add., 26x100 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath. Plans in progress.

**Factory**, Newton street, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owners, Venus Syndicate Candy Co., 318 Broadhead street, Bethlehem, Pa. Brick, steel, concrete, 3 stories, 44x100 feet, slag roof, concrete floors, electric light, (2) elevators, rolled steel sash, fire tower, fire doors, dampproofing. Plans in progress.

**Club House**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, St. Aloysius' Society, H. Spiegel, South Bethlehem, Pa. Brick, 2 and 3 stories, 110x80 feet, composition roof, hardwood floors, steam heat, electric light, tile and terrazzo work, metal lath, rolled steel sash, hollow tile, safety treads, roof ventilators. Plans in progress. Will be ready for bids in about 2 weeks.

**High School**, Twelfth street, Easton, Pa. Architects, William Michler & J. W. Snyder, Drake Building, Easton, Pa. Owners, School Board of Easton, R. E. Peifer, secretary, Easton, Pa. Reinforced concrete, brick and steel, 3 stories and basement, 250x200

feet, composition roof, maple floors, safety treads, roof ventilators, metal lath, tile and marble work, rolled steel sash (heating, plumbing and electric work reserved), ornamental iron work. Plans nearly completed. Will take bids in about a month.

**High School**, Lancaster, Pa. Architect, C. E. Urban, 10½ East Orange street, Lancaster, Pa. Owners, School Board of Lancaster, K. J. Newell, Administration Building, Prince and Chestnut streets, Lancaster, Pa. Brick, 3 stories, 219x200 feet, composition roof, hardwood floors, electric lighting reserved. Plans in progress.

**Sunday School**, Fourth street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Fourth Church of God, C. E. Bail, chairman Building Committee, Franklin Building, Harrisburg, Pa. Brick. Preliminary plans in progress.

**Elementary School**, Coatesville, Pa. Architects, Lawrie, Green & Co., Commonwealth Building, Harrisburg. Owners, Coatesville School District, H. R. Vanderslice, Coatesville, Pa. Brick, 2 stories, 8 rooms, composition roof, hardwood floors, hollow tile, electric light, tile work, iron stairs, ornamental iron work. Plans in progress.

**School (add.)**, Coatesville, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Coatesville School District, H. R. Vanderslice, Coatesville, Pa. Brick, 2 stories, 8 rooms and gymnasium, com-

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position roof, hardwood floors, hollow tile, electric light, metal lath, iron stairs. Plans in progress.

**High School**, St. Mary's, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, St. Mary's Borough School Board, E. G. Beck, secretary, St. Mary's, Pa. Brick, stucco and tile, 2 stories and basement, 12 rooms, composition roof, hardwood floors (heating and electric work reserved), metal lath. Plans in progress.

**Residence**, St. George's Road, Ardmore, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Concrete cinder block, plaster, 2½ stories, 60x60 feet, vapor or hot water heat, electric light, shingle roof, hardwood, brick, cement floors, tile work, plumbing. Architect taking sub-bids.

**Manufacturing Building**, Steelton, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. H. Nell, president People's Bank Building, Steelton, Pa. Brick, slow burning, 4 stories, 60x105 feet, slag roof, pine floors, steam heat, electric lighting. Owner taking sub-bids.

**Residence and Garage**, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Samuel Green, Royersford, Pa. Frame and stucco, 2 stories, 24x26 feet, slate roof, yellow pine floors (heating, plumbing and lighting reserved), garage in basement, bond. Plans in progress. Owner will take bids.

**Apartment House**, Pottstown, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Ronald A. Reiff, Hanover and South streets, Pottstown, Pa. Brick, frame and stone, 3 stories, 24x71 feet, tin roof, yellow pine floors (heating, plumbing and lighting reserved), metal windows, wire glass, metal sash, bond, iron stairs. Plans completed. Owner ready for bids.

**High School**, Mechanicsburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, Mechanicsburg School Board, G. H. Luckner, secretary, Mechanicsburg, Pa. Brick, 2 stories and basement, 86x65 feet, slag roof, hardwood and composition floors (heating, electric work and plumbing reserved), metal lath, rolled steel skylights, roof ventilators. Plans in progress. Will be ready for bids in one week.

**Residence and Garage**, Edmonds avenue, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Ben Laster, Adams street, Bethlehem, Pa. Brick, 2½ stories, 40x30 feet, slate roof, pine floors, steam heat, electric light. Owner taking bids.

**Residence and Garage**, Edmonds avenue, Drexel Hill, Pa. Architect, private plans. Owner, L. B. Underwood, 439 North Fourth street, Philadelphia. Stone and stucco, 2½ stories, 60x26 feet, garage, 21x10 feet, hot water heat, electric light, hardwood floors, shingle roof (plumbing, heating, electric and fixtures reserved). Owner taking bids due September 10th.

**Residence**, Narberth, Pa. Architects, Harvey & Clark, West Palm Beach, Florida. Owner, Mr. Roscoe I. Anthony, Gladwynne, Pa. Hollow tile, stucco, cast stone, 2 stories, 70 feet, 1½ inches x 24 feet, 39 feet, 10 inches x 17 feet, 15 feet, 4 inches x 44 feet, hot water heat, electric light, waterproofing, leaded glass, tile roof. Architects taking bids as soon as possible.

**Store and Apartment**, 111½ West Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, J. Judas, National Provision Co., 502 Broadway, Bethlehem, Pa. Brick, 3 stories, 30x80 feet, slag roof, maple floors, steam heat, electric light, tile work, plate glass, hollow metal skylights. Owner taking bids due as soon as possible.

**Factory**, Harrisburg, Pa. Architect, Maurice E. Kressley & Co., 13 North Fourth street, Harrisburg. Owners, Collins Ice Cream Co., 41 North Thirteenth street, Harrisburg, Pa. Brick, concrete, 1 story and basement, 40x100 feet, concrete and composition floors, electric light, rolled steel skylights. Architects taking bids due September 14th.

**Factory (add.)**, Lititz, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consumers' Box, Board & Paper Co., Lititz, Pa. Reinforced concrete, 1 story, 60x80 feet, slag roof, concrete floors, electric light, steel trusses. Architect taking bids due as soon as possible.

**Hot Water System**, Twelfth and Green Lane, Fern Rock, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Hebrew Orphans' Home, on premises. Architect taking bids due September 7th.

**Residence**, Drexel Hill, Pa. Architect, private plans. Owner, C. I. Duncan, Otis Building, Philadelphia. Stone, frame, 2½ stories, 30x25 feet, hot air heat, electric light, shingle roof, oak and pine floors. Owner taking bids due as soon as possible.

**School**, Morrisville, Pa. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Associate architect, T. B. Stockham, Morrisville, Pa. Owners, Morrisville School Board, Mr. Taylor, secretary, Morrisville, Pa. Brick, hollow tile and steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine floors, hollow tile, safety treads, roof ventilators, metal ceilings, waterproofing and damp-proofing (heating, electric and plumbing reserved), metal lath, rolled steel sash, fire doors, bond. Lowest bids submitted by J. H. Morris & Co., 211 North Montgomery street, Trenton, \$80,046. Heating and ventilating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, \$17,494. Electric work, Jackson Electric Co., Forst Richey Building, Trenton, N. J., \$1,779. Plumbing, Trenton Plumbing & Heating Co., 336 South Broad street, Trenton, N. J., \$5,698.

**Parsonage, Church and Sunday School**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, First Reformed Church, Sunbury, Pa. Brick and stone, 3 stories, 95x52 feet and 32x40 feet, slate roof, maple floors, concrete work, hot water heat, electric light, plumbing, tile work, rolled steel sash, structural steel, iron work. Architect ready for bids October 1st.

**Administration Building (add.)**, Schuylkill Haven, Pa. Architect, private plans. Owners, Schuylkill County Hospital for Insane, Dr. W. G. Bowers, superintendent on premises, J. E. Schloppman, County Controller, Pottsville, Pa. Erection of porch addition. Owners taking bids due September 17th, 10 A. M.

**Printing Plant**, Harrisburg, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Telegraph Printing Co., Harrisburg, Pa. Brick, concrete, 1 story, 143x194 feet, steam heat, electric lighting, slag roof, cement floors. Plans in progress.

**Residence**, York, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, A. B. Seifert, York, Pa. Hollow tile or building block and stucco, 2½ stories, 25x30 feet, hot water heat, electric light, shingle roof, hardwood and pine floors, tile work. Owner will build.

**Residence and Garage**, Middletown, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, Henry K. Paul, Jr., Middletown, Pa. Stone, 3 stories, 67x32 feet and 18x24 feet, one story garage, 28x20 feet, hot water heat, electric light, tile and marble work, asbestos shingle roof, hardwood floors, conservatory and glazing, landscape gardening, oil burning equipment, cement work, or-

namental iron work. Owner will be ready for bids (general) due September 5th.

**Residences (2)**, Springfield Garden, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owners, Springfield Garden Realty Corporation, Springfield Garden, Pa. Frame and stucco, 2½ stories, 26x36 feet, hot water heating, electric lighting, tile work, shingle roof, hardwood and pine floors. Owners taking sub-bids.

## Pennsylvania Contracts Awarded

**Hotel (add.)**, Third and Walnut streets, Harrisburg, Pa. Architect, W. L. Stoddard, 9 East Fortieth street, New York. Owners, Penn-Harris Hotel Co., care of E. Z. Wal-lower, Harrisburg. Reinforced concrete, stone, 12 stories, electric light, steam heat, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamein doors, terra cotta work, composition roof. Contract awarded to Hunkin-Conkey Const. Co., Cleveland, Ohio.

**Office Building**, Myerstown, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, Liebovitz & Son, 75 Lord street, New York City. Brick, 1 story, 36x31 feet, Barrett Specification roof, pine floors, electric light, rolled steel sash, fire doors. Contract awarded to William E. Spatz, American Casualty Bldg., Reading, Pa.

**Machine Shop**, Myerstown, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, S. Liebovitz & Son, 75 Lord street, New York City. Brick, 1 story, 26x34 feet, Barrett Specification roof, concrete floors, electric light, rolled steel sash, fire doors. Contract awarded to William E. Spatz, American Casualty Bldg., Reading, Pa.

**Residence and Garage**, Lansford, Pa., \$20,000. Architect, C. F. Storch, Summitt Hill, Pa. Owners, D. G. Watkins, Lansford, Pa. Frame, 2½ stories, 35x47 feet, hardwood, pine and cement floors. Contract awarded to C. J. Schilbe, Tamaqua, Pa.

**Stores and Apartments (11)**, Tenth and Summage streets, Darby, Pa. Architects, R. R. Neely and E. William White, 2301 Spruce street, Philadelphia. Owner, name withheld. Cement block, 2 stories, 20x90 feet, hot air heat, electric light, slag roof, pine and composition floors, wood bulks, plate glass. Contract awarded to D. D. Steel, on site of operation.

**Women's Club House**, Springfield, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Women's Club of Springfield, Pa. Brick and steel, 1 story, 16x10 feet (plumbing, heating and electric reserved), slag and shingle roof, cement floors, metal lath, bond, iron work, plastering. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

**Library**, Ardmore, Pa. Architects, Savery & Sheetz, Stephen Girard Building, Philadelphia. Owners, Memorial Library of Ardmore, Pa. Indiana limestone, cut stone, 1½ stories, 36x64 feet, steam heat, electric light, tile and marble work, rolled steel sash and skylights, slate roof, North Carolina pine and cork tile floors. Contract awarded to F. M. Harris Co., 1520 Parrish street, Philadelphia.

**Stores and Apartments (3)**, Reading, Pa., \$15,000. Architect, H. G. Mohn, Church and Walnut streets, Mohnton, Pa. Owner, C. H. Weand, 2264 Northmont avenue, Reading, Pa. Brick, 2 stories, 21x56 feet. Contract awarded to George Sherman, Temple, Pa. (R. F. D. No. 1).

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa.

Greene County, R-111, Franklin Township,



\$37,394. Contract awarded to Meyers Paving Co., Waynesburg, Pa.

Northampton County, Route 175, Upper Nazareth Township, \$111,190. Contract awarded to Juniata Co., Empire Building, Philadelphia.

Lehigh County, Route 163, Slatington Borough. One course reinforced concrete and hillside vitrified brick, \$64,697.20. Contract awarded to Weaver Cont. Co., Allentown, Pa.

Northampton County, Route 165, Wind Gap Borough (June 8th letting). Contract awarded to McInerney & McNeal, Inc., Easton, Pa.

**Grade School**, Northeast Corner Broad and Swatara streets, Tamaqua, Pa. Architect, B. R. Stevens, 1737 Filbert street, Philadelphia. Owners, Tamaqua School District, George Wlter, secretary, Tamaqua, Pa. Brick, 2 stories and basement, 76x93 feet (heating, lighting, plumbing reserved), slag roof, composition and pine floors, roof ventilators. Contract awarded Butz & Clader, Allentown, Pa. Unit No. 1, \$48,923. Plumbing, A. L. Haddsty, Tamaqua, Pa., \$3,980. Heating, A. L. Haddsty, Tamaqua, Pa., \$8,777. Electric, Norman Griffith, Tamaqua, Pa., \$1,268.50.

## New Jersey Construction News

**Warehouse and Office**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, American Oil & Supply Co., care of architect. Brick and steel, 2 stories, 22x200 feet, slag roof, concrete floors, hollow tile, metal lath, electric light, hollow metal sash and skylights, roof ventilators, floor hardener. Plans in progress.

**Club House (alts.) and Auditorium**, Greenwood street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Tall Cedars of Lebanon, Chapter of Eastern Star, care of architect. Brick and steel, 2 stories, 82x137 feet, slag roof, cement and hardwood floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow tile, elevators, roof ventilators, hollow metal doors, fire escape, floor hardener, iron stairs and work. Plans in progress.

**Residence (alts. and add.)**, New York avenue, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owners, Grossman Hotel, Mr. Grossman, Sr., New York avenue, Atlantic City, N. J. Frame and stucco, 5 stories and basement, 177x75 feet, slag roof, tile work, heating extension, electric light, parquet floors, roof ventilators. Plans in progress.

**Residence (alts. and add.)**, 416 North Indiana avenue, Atlantic City. Architects, Schmidt & Dobbins, Segal Building, Atlantic City, N. J. Owners, Old Folks' Colored Home, care of architects. Brick, 3 stories, 69x24 feet, slag roof, pine floors, electric work. Plans in progress. Will be ready for bids next week.

**Boiler House and Laundry**, Atlantic City, N. J. Associate architects, H. A. Stout, J. V. Mathis and J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Hospital, Mr. J. Moore, Atlantic City. Brick, concrete, steel, 2 stories, 50x55 feet, slag roof, concrete floors, electric light, rolled steel sash and skylights, fire doors, roof ventilators, waterproofing, damp-proofing. Architect will be ready for bids next week.

**Apartment**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, J. F. Eilenberg, 122 South Maryland avenue, Atlantic City. Semi-fireproof, 5 stories, 37x110 feet, slag roof, hardwood floors, hollow tile, metal lath, elevators, hot water heat, electric light tile and marble work, copper work, rolled steel sky-

lights, plate glass, metal ceilings. Owner will take bids.

**Residence (alts. and add.)**, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, John Siracush, 110 North Carolina avenue, Atlantic City. Brick, 2 stories, 18x6 feet, hardwood floors, electric light, general alterations. Owner taking bids.

**Residences (2)**, Fredericksburg avenue, Atlantic City, N. J. Architects, Schmidt & Dobbins, Segal Building, Atlantic City, N. J. Owners, B. Wolf & Son, 213 Caspin avenue, Atlantic City, N. J. Hollow tile or concrete block, 2 stories, 40x31 feet, slate or slag roof, parquet floors, steam heat, electric light. Owner is taking sub-bids.

**Residences (3)**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Samuel Dolinsky, 2 North Vermont avenue, Atlantic City, N. J. Brick, 2½ stories, 48x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Industrial School**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Atlantic City School Board, H. Young, secretary, Atlantic City, N. J. Brick, reinforced concrete, 3 stories, 43x125 feet, reinforced concrete roof, hardwood floors (heating, plumbing and electric reserved), rolled steel sash and skylights, roof ventilators. Owners taking bids due September 20th.

**School (alts.)**, Indiana avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City School Board, H. H. Young, Atlantic City, N. J. General alterations, heating and ventilators. Owners taking bids due September 20th.

**Vocational School (alts. and add.)**, Illinois avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, H. H. Young, secretary, Atlantic City, N. J. Brick, reinforced concrete, steel, cut stone, 4 stories and basement, 114x32 feet (heating, plumbing and electric reserved), slag roof, cement floors, hollow tile, metal lath, slate work, rolled steel sash, skylights and doors, fire and kalamein doors, bond, iron stairs, dampproofing, metal weather strips, roof ventilators, metal window guards, hollow tile, lockers. Owners taking bids due September 20th.

**Women's College**, New Brunswick, N. J., \$250,000. Architects, Department of Institutions and Agencies, Division of Architecture & Construction, Trenton, N. J. Owners, State of New Jersey, care of architects. Brick, steel, concrete, hollow tile, 2 stories and basement, 158x78 feet, slate roof, mastic and hardwood floors, hollow tile, roof ventilators (heating, plumbing and electric reserved), tile and marble work, rolled steel sash and skylights, iron stairs. Architects taking bids due September 6th.

**Bank and Office Building**, Eighth and Asbury avenue, Ocean City, N. J. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, Ocean City Title & Trust Co., Ocean City, N. J. Fireproof, reinforced concrete, limestone, cut stone, brick, granite, 6 stories, 62x96 feet, slag roof, reinforced concrete, hollow tile, roof ventilators, waterproofing and dampproofing, iron stairs, tin clad and kalamein doors, rolled steel sash and skylights (tile, marble, elevators, electric, heating, plumbing and all interior finish reserved). Architect taking bids due September 14th.

**Psychology Building**, Princeton, N. J. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Brick, concrete, steel, 2 stories and basement, 35x128 feet, central heating, electric light, rolled steel

sash, slag roof, cement floors. Architect taking bids due September 12th.

**Store and Office Building (alts. and add.)**, Northwest Corner Third and Market streets, Camden, N. J. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Maracourse, on premises. Brick and stone, steel, stucco, 2 stories and basement, 86 feet, 11 inches x 15 feet, 9 inches, 11 feet, 11 inches x 21 feet, 3 inches, steam heat, electric light, tile, metal lath, slag roof, composition and cement floors, metal ceilings, bond, iron work. Architect taking bids due September 7th.

**Office Building**, Trenton, N. J. Architect, William Kleman, First National Bank Building, Trenton, N. J. Owners, Acme Rubber Co., East State street, Trenton, N. J. Brick, reinforced concrete, two stories, 40x80 feet, slag roof, hardwood floors, heating extension, electric light, rolled steel sash. Architect taking bids due September 12th.

**Road Work**, Route 4, Section 20, Manasquan River, Sea Girt, Monmouth County, N. J. Architect, private plans. Owners, New Jersey State Highway Commission, Assembly Chamber, A. Lee Grover, Chief Clerk, Trenton, N. J. Reinforced concrete, excavating, bond. Lowest bidders: McGreevy & O'Connor, Manasquan, N. J., \$188,339.62.

**Road Work**, Route 13, Section 5, Trenton to Lawrenceville, Mercer County, N. J. Architect, private plans. Owners, New Jersey State Highway Commission, Assembly Chamber, A. Lee Grover, Chief Clerk, Trenton, N. J. Excavation, concrete foundations, surface asphalt, concrete curbs. Bond. Lowest bidder: James A. Barrett, Olden avenue, Trenton, N. J., \$359,860.

**Grading Drainage**, Belvidere, N. J. Engineer, H. W. Vettor, Belvidere, N. J. Owners, Board of Chosen Freeholders, County of Warren, Morris S. Faust, Clerk, Belvidere, N. J. Grading and drainage of the Hainesburg-Columbia Road 31,016 cubic yards excavation. Owners taking bids due September 19th, at 11 A. M., Standard time. Deposit of \$10.00.

**School**, Penn avenue, North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board of North Wildwood, Thomas B. Akerman, secretary. Brick, cut stone, steel, 3 and 2 stories, 164x36 feet and 91x45 feet (heating, electric separate), asbestos built-up roof, cement and maple floors, hollow tile, safety treads, metal lath, tile and marble work, rolled steel sash, hollow metal doors, bond, iron stairs, iron work. Revised plans in progress.

## New Jersey Contracts Awarded

**Residence**, Bellevue Circle, Trenton, N. J. Architect, W. A. Kleman, First National Bank Building, Trenton, N. J. Owner, care of architect. Stone, 2½ stories, 27x52 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, metal lath, tile and marble work. Contract awarded to J. H. Morris & Co., 211 North Montgomery avenue, Trenton, N. J.

**Residence**, Ventnor, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, E. Katz, care of architect. Hollow tile, 2½ stories, 46x40 feet, slag roof, hardwood floors, electric lighting, tile work. Contract awarded to C. Dougherty, Pleasantville, N. J.

**Store House**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Board of Education of Atlantic City, H. H. Young, secretary, Atlantic City, N. J. Brick, 2 stories, 45x97 feet, slag roof, concrete floors, steam heat, electric



light, rolled steel sash and skylights, fire doors. Contract awarded to M. B. Markland, Guarantee Trust Building, Atlantic City.

**School**, Mt. Ephraim, N. J. Architect, J. L. Coneys, Drexel Building, Philadelphia. Owners, Board of Education, Township of Center, Camden County, N. J. New toilets, plumbing, electric work. Contract awarded A. J. Voegtlin, Camden, N. J. Plumbing, Charles Laepold, Camden, N. J. Electric, Mr. Roeker, Camden, N. J.

**Residence (alts. and add.)**, Cinnaminson, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, William Parry, Cinnaminson, N. J. General alterations. Contract awarded to John McVaughan, Riverton, N. J.

## Delaware

### Construction News

**Road Work**, Delaware. 0.508 miles. Contract C. K. 17, through Frederica, 1,200 cubic yards excavation, 50 tons broken stone base course, 890 cubic yards cement concrete pavement. Low bidder: Juniata Co., Empire Building, Philadelphia, \$19,738.

C. S. 27, Clarksville to Bethany Beach, 11,500 cubic yards excavation, 6,100 cubic yards cement concrete pavement or slag cement concrete. Low bidder: Plain Cenc. Highway Engr. & Cons. Co., Selbyville, Del., \$122,419; slag concrete, Highway Engr. & Const. Co., Selbyville, Del., \$117,539.

42 A. 120-foot temp. timber bridge, 10 feet wide, Seaford. Low bidder, Delaware Cons. Co., Wilmington, Del., \$4,733.

**Residence**, Wilmington, Del. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, G. L. Armstrong, Wilmington, Del. Brick, 2½ stories, 28x40 feet, hot water heat, electric light, metal lath, tile and marble work, slate roof, hardwood and pine floors. Owner ready for general bids.

## Miscellaneous

### Construction News

**Residence**, Galion, Ohio. Architect, A. Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owner, Mr. Ernest L. Klopp, 217 South Union street, Galion, Ohio. Brick, 2 stories, 30x70 feet (heating reserved), electric light, tile work, shingle roof, hardwood floors. Henry Hoeker, Galion, Ohio, will build and is ready for sub-bids.

### SAVING THE SURFACE THEREBY SAVING ALL

*Paint Protects and Decorates Your Home*

ROBERT TAYLOR JONES

*Technical Director Northwestern Division*

**W**HEN you are ready to paint your house, do not think of painting as being merely decorative. Paint has a real value as a protection. Without it much of the exposed wood and metal in your home would soon decay.

Of course, there are all kinds of paints, and there are other ways of preserving materials than by spreading paint over them. For example, there are varnishes and preservative stains, but all these substances may be put on by the painter and are known as "painter's work." For this reason this article deals not only with

common paint, but with these other materials that are used as decorative and preservative coverings for interior and exterior woodwork.

Paint is a very simple matter as far as its composition is concerned. Essentially it is only an oil containing pigments. We all know what an oil is. The pigment is a body of mineral matter which, upon exposure, forms a cement. It is bound in the oil to make a film which we call a coat of paint. The pigment carries the color. As far as this is concerned, we might take coal oil, chalk and brick dust expecting to get red paint, but we would not realize much on our expectations.

The oil used in paint has to be of a special nature such that when it comes into contact with the air or oxygen it will turn into a jelly. For the most satisfactory results, linseed oil is necessary. When materials oxidize, they burn. So paint starts to decompose as soon as it is exposed to the air. That is one of the reasons it has to be renewed at regular intervals. Just remember that there is no substitute for good linseed oil in paint.

The pigment must have a nature such that it will unite properly with the oil and with the various elements of which the pigment is composed to make a thin, dense film that will defy the elements for a long time. Mere colored chalk and the best oil would not be satisfactory; neither would good pigment and cheap oil. A satisfactory paint is one which has a high grade oil combined with a pigment which has known qualities of durability.

To these elements are added two others. One of them is turpentine and the other is a dryer. Turpentine is used to thin the paint. It makes the paint carry over a greater distance. Too much of it, of course, is objectionable. The dryer is a compound which is added to hasten the oxidizing of the oil and the hardening of the pigment. If too much dryer is added, the durability of the paint is seriously reduced.

The pigments that are commonly used are carboante of lead—"white lead"—and zinc oxide. Sometimes a minor quantity of other materials is added to ready mixed paints in a formula that manufacturers have tested and proved.

If paint is to be mixed on the job, it is safe only to use these well known compounds—pure linseed oil, pure white lead and zinc oxide, pure turpentine, and a small amount of dryer. No substitutes should be used for any of these materials. In the hands of an experienced painter who knows how to mix an apply paints, the result from using this mixture in proper proportions should be good.

Paint manufacturers have realized the difficulty of always obtaining a high grade paint when it is mixed on the job so they

have worked out ready mixed paints in which only the most superior oils and pigments are used. These ready made paints are supplied in sealed cans with the manufacturer's label attached. Many architects, to make sure that the paint will be of a uniformly high grade, require that only the product of well known manufacturers be used, and that it must be delivered on the job in cans or containers unopened.

Perhaps I should have said before this that no painting, staining, or varnishing of any kind can be done until the surface is ready for the work. The wood must be clean and it must be dry. These two essentials come at the very top of the list of requirements of good painting.

The first coat should have a large amount of oil in it so it will penetrate the wood and fill up the pores. Outside woodwork, siding, etc., should be painted practically as fast as it is put in position. This keeps the wood dry so that subsequent coats will properly adhere. In first class work, inside woodwork is "back painted," or has its back surfaces sealed with shellac before the wood is nailed into position, as this tends to keep the wood from absorbing moisture which may have remained in the walls.

Well seasoned lumber is absolutely necessary as a basis for good painting. If the wood is well seasoned dampness will not ooze out of it and peel or blister the paint. Some grades of lumber used as a basis for painting contain pockets of pitch or streaks of rosin. This material lies about knot holes. The painter should seal up these places with shellac before the painting is done. Otherwise they will stain the finish. Of course, it goes without saying that outside painting cannot be carried on when it is raining. It is not even wise to paint when rain threatens. It may be remembered also that exterior painting cannot be satisfactorily carried on in cold weather.

Remember that two coats are far better than one, and three coats are far better than two. Two thick coats are nothing like as good as three thin coats in which the same quantities are used. If you start out with three coats of good paint on your outside walls and have them repainted with an additional coat every two years, the woodwork will remain in good condition and your house should always look well.

Painted trim for inside finish is becoming more and more popular. It may be left glossy or it may be rubbed with pumice to get a flat or eggshell finish. Flat drying paints of a special composition different from the usual lead, zinc, turpentine, and oil combination may also be used.

If you wish to have enamel finish, this must have as a base at least two coats of paint—three are better—or enamel under



coating, for enamel is somewhat transparent, and unless the paint should cover up the wood thoroughly the grain of the wood will show through. The flat, egg-shell or rubbed effects in enamel will not stand up under the repeated washings as well as the full gloss enamels. But you may prefer the lower tone of the dull finish.

#### *Many Kinds of Wood Stain*

Another material that is used for finishing of woods is stain. There are many kinds of stain, but they are all composed essentially of a vehicle which carries a dye to stain the wood. Paint manufacturers have put these wood stains into several classes depending largely on the vehicle that is used to carry the stain or pigment.

First there is the penetrating oil stain which is generally an aniline dye in a base of benzol or naphtha. This stain penetrates the wood deeply and carries the color into the fibre. It has the property of not raising the grain of the wood and is therefore especially suitable for soft woods. A coat of shellac is put over this stain so that it will not work up into the varnish and cloud it.

Then there are acid stains in which acetic acid or vinegar is used with a dye. The acid stains penetrate the wood very deeply. They are open to the objection that they raise the grain of the wood, so that before they are put on it is desirable to sponge the wood with clear water and when the grain has raised, to sandpaper it off smoothly before putting on the stain. A stain for fumed oak is sometimes known as acid stain. It is really an alkaline stain, being mainly composed of ammonia. The acid stains have the virtue of giving very brilliant effects when applied by a good painter. Shellac is also used over this stain with wax or varnish as a finish coat.

A third type of stain is known as the oil and pigment stain. It is especially devised for exteriors. It can also be used for interior trim, especially on soft woods.

In the hands of a skillful painter, stains can be made to gain beautiful effects, the particular kind of stain used being somewhat determined by the affect that is desired. In general it is desirable to cover them with a protective coat of shellac if varnish is used for a final coat. The shellac is also necessary if the beautiful waxed finish is desired.

#### *Mysterious Varnish*

If you will call on any up-to-date paint dealer he will show you a wide selection of wood samples stained with the different kinds of stains so that you can make the selection of a stain in the color and finish that you want. Here again your safety lies in selecting the product of a reputable manufacturer and making sure that it is delivered on the

job in containers that have not been previously opened.

The third and most important material used by the painter is varnish. This is truly a mystery.

Nobody but the varnish manufacturer knows what goes into it. It is essentially composed of gums, oils, and turpentine. Some of the oils are imported from China. Some of the gum is a fossil which is dug in Australia. Inferior varnishes are made of excessive quantities of cheap resin gums and oils. These wear out, lose their gloss, or stain too readily. Expensive materials used in compounds that are out of balance give results that are unsatisfactory. For example, chemists show that an excessive amount of China wood oil used in varnish will make it highly resistant to water staining, but that this property is gained at the expense of durability. It requires expert manufacturing and compounding to keep the proper balance between these things.

#### *Get the Right Varnish*

On account of the different requirements that are made of varnish such as for floor coverings, furniture, trim, outside work, varnish that is to be subjected to hot water, acid, and so on, manufacturers have produced a great many kinds, each one of which has qualities which especially fit it for particular uses. You will see that the kind of varnish that would be suitable for a chair would not generally be best for a floor, and so on.

Since the varnish matter is such a closed book to everybody but the manufacturers, the only recourse that the layman has is to use the product of a manufacturer who bears reputation which has stood the test of time. When a manufacturer thinks enough of his product to print his name upon the label and then stand behind that product guaranteeing absolute satisfaction, and when that manufacturer remains in business a long term of years and has a continuous reputation for superior products, you have a right to expect satisfactory results.

#### *When a Day's Delay Pays*

It must be said that certain conditions other than those of the varnish must be right if the varnish work is to turn out well. It will not do, for example, to put varnish on damp wood or even to apply it in a room where the air is excessively damp. We want moderately cool, dry air and clean dry materials before we start, and then there should be no hurry after the work has begun. Leave time for the successive coatings to harden—a day's delay to make sure of this may return large profits to you in a good and durable job.

Don't begin your fine varnish floor finishing with a cheap undercoating. Shellac is a very valuable material for certain

finishes on wood trim and furniture, but it wears out quickly on the floor. Build up your floor varnish with two, or much better, three coats of the best varnish you can get. Don't let the varnish chill—keep it out of drafts—make a mighty effort to keep down the dust.

We have not said much about the workman—the painter. He is as necessary an element in this part of the work as he has been all through building operations. It is easy to distinguish between a good job and one that is poorly done. There are ways in which workmen can slight this part of the work as there are in everything else through the building. Your guarantee of satisfaction lies largely in having an expert reliable painter do the work.

There are plenty of painters who take a pride in doing good work—men who would rather not do your work at all than to do a poor job.

Let me once more stress the "first axiom" of substantial building. I have told it to you already many times. It is this: "Good workmanship and good materials combined are necessary for first class building."—*The Small Home*.

#### WHY CHIMNEYS LEAN EASTWARD

Brick chimneys usually lean toward the east. The following theory has been offered in explanation: At night moisture accumulates in the chimney, and during the forenoon the side toward the sun dries out more rapidly than the opposite side, causing shrinkage of the brickwork on the eastern side very much as a board warps when unequally wet on opposite sides.

Alternate heating and cooling causes progressive expansion of cast iron and of some other materials. Progressive expansion of stone slabs has been found in certain graveyards. The southern and eastern faces of gravestones are often more readily disintegrated than the northern and western faces, due apparently to a greater degree of progressive expansion on the sides most exposed to the sun. If the western side of masonry is thus expanded permanently more than the eastern side, the masonry will lean toward the east.

The Egyptian obelisk in Central Park, N. Y. City, if of granite that is not porous, yet the hieroglyphics on its southern and western faces are more badly disintegrated than on its northern and eastern faces. This is explained by the progressive expansion theory, but is not explained by the moisture penetration theory.

Asphalt pavement that has little or no traffic becomes porous through progressive expansion, and it also shows a tendency to creep down steep hills.

—*Exchange*.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son.....1015 Frankford Ave., Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son.....1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick.....Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

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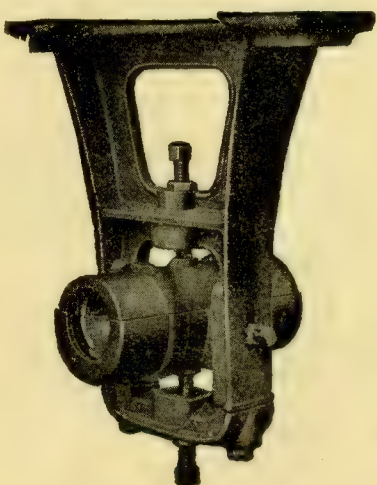
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 37  
September 12, 1923

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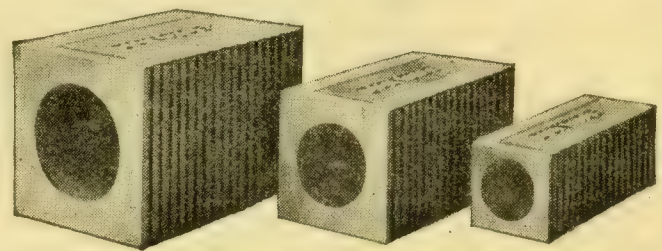
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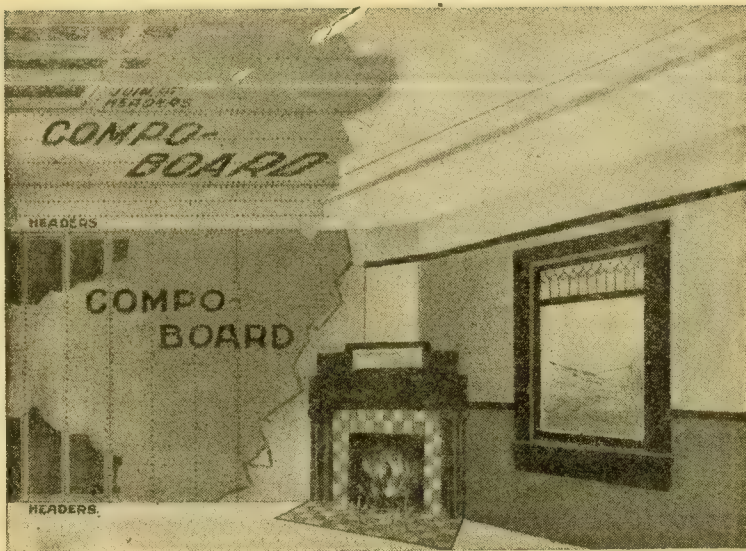
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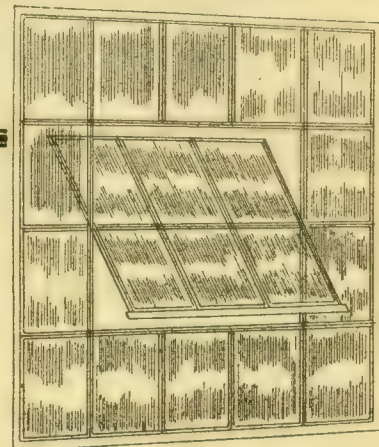
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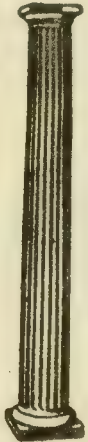
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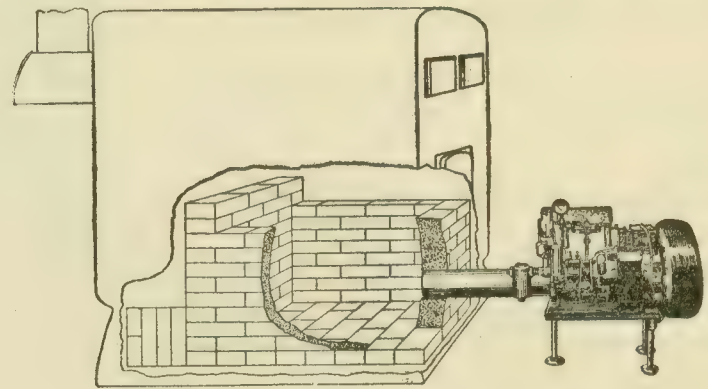
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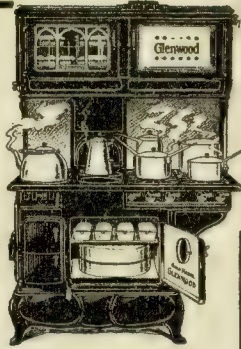


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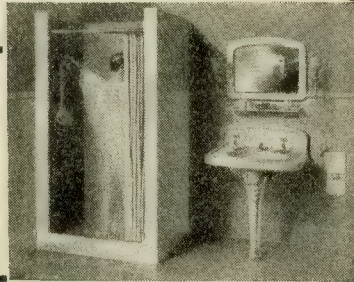
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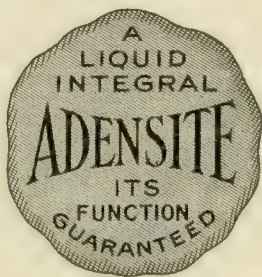
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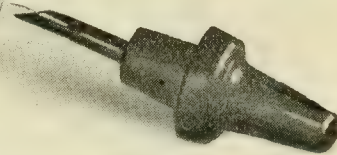
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 37

PHILADELPHIA  
September 12, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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To all points in Europe.....5.50 a year

All Subscriptions Payable in Advance

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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### TUSSELL ON IMMIGRATION IS RAPIDLY APPROACHING

*Individual Contractors In Position To  
Aid Industry By Immediate Action*

Immigration is to be a subject of highest interest when Congress convenes. Legislation must be enacted to replace the present law, which dies next year.

Already many organizations are well advanced in the preparation of their arguments to be presented to the lawmakers in the interests of industrial, labor and independent groups. The country is being combed for data for use in bolstering the views and opinions of the various groups that are vitally interested in the form of the next immigration law.

The construction industry, through the Associated General Contractors of America, is joining in this general move for the gathering of information. This industry, because of the increasing number of native-born men who seek "white collar" jobs, is sadly in need of an adequate supply of labor. Under present conditions, which are rendered acute during periods of peak operation, contractors are forced to bid against each other for labor in many instances. Wages thus are forced to an unnatural level and unhealthy industrial conditions result. The increased costs are passed along and eventually prevent necessary building operations from being undertaken.

The construction industry is not ask-

ing that a mass of alien non-producers be permitted to enter the country. But it does feel that its interests are not at variance with those of the country at large when it expresses its desire for legislation that will permit real man-energy to be brought into an industry that essentially is a producer.

Those who are advocating legislation of an extreme type under which the country's doors would be closed so that comparatively few men might bring a desire to work and produce to this country must be acquainted with the construction industry's views. This applies with added importance to the nation's lawmakers.

It must be shown that the construction industry is thoroughly in sympathy with the plan of the House immigration committee to swing the basis of establishing quotas from the 1910 census to the 1890 census in order to secure a higher grade of immigrants. But it also must be shown that the construction industry, representing the marrow of the country's industry as a whole, must not be forced to operate unnaturally because native-born men would rather sit at desks than be artisans.

Members of the A. G. C. must work as individuals to aid the national organization in presenting these facts. They can find a real opportunity while their members of Congress are in their native states to emphasize these facts in the

minds that make the laws. Also, individual contractors can give vital aid to the industry by acquainting Washington headquarters, through answers to the recent questionnaire or independently of their particular problems connected with the supply and demand of labor.

Much information is available to prove in the case of an independent contractor that he is feeling the effect of a lack of balance between supply and demand of labor, and showing how additional costs resulting from lack of this balance causes increased building costs and thus holds back industrial expansion and general prosperity. Contractors should favor the Washington headquarters with this type of information at the earliest convenience.

### THE LATEST ARRIVALS

Immigration statistics recently made public by the Department of Labor present interesting facts concerning the number of aliens entering the country who may be considered as potential additions to the ranks of labor in the construction industry.

The figures show a total of 522,919 immigrants were admitted to this country during the last fiscal year, in contrast with 71,450 aliens who emigrated from the United States during the same period. Of the immigrants, 307,522 were men.

A list of occupations of the immigrants

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include the following totals: carpenters and joiners, 12,305; iron and steel workers, 4,076; painters and glaziers, 2,550; plumbers, 1,197; metal workers, 764; masons, 3,276; stone cutters, 521; tinners, 512; mechanics, 4,644; blacksmiths, 2,296 and laborers, 83,552.

More carpenters and joiners came into the country than men following any other single line of skilled work, the next closest total being that of 5,559 tailors.

The Annual Meeting of the Philadelphia Builders' Exchange and Employers' Association will be held Tuesday, September 18th, at 2.00 P. M., at the Exchange offices, 1716 Arch Street, for the election of Officers and Directors for the ensuing year, and for the transaction of such other business as may properly come before the organization at that time.

In accord with the provision of the By-Laws as provided in Article XIII, Section 1, the Nominating Committee duly appointed, has placed in nomination the following officers and directors for their respective terms, to be voted for at the above meeting:

President, Amos Y. Leshner; First Vice President, William M. Anderson; Second Vice President, Horace H. Burrell; Third Vice President, H. G. Kepler; Treasurer, C. Albert Kuehnle; Directors, D. F. Durkin, Jr., Thomas Gassner, Robert D. Hamilton, John P. Holleran, Edward Lupton, John S. McQuade, E. B. Newcomer, Joseph M. Steele.

#### FEDERAL REPORT ON CONSTRUCTION

The Industrial Employment Information Bulletin, issued by the Department of Labor, gives an analysis based on information gathered by special agents in sixty-five industrial centers, outlining the trend of employment in various industries, including specific data on construction.

These reports indicate continued activity in construction and a near-peak demand for building tradesmen.

Summaries of conditions in the various states as reported by the agents of the Department of Labor, follow:

##### *New England District*

Maine: Building trades active, employing majority of tradesmen.

New Hampshire: Building operations employ many hands, inadequate housing throughout the state.

Vermont: Extensive building and road construction provides work for a large number of men; pronounced shortage of houses.

Massachusetts: Large building operations under way keep all available tradesmen employed; general house shortage.

Rhode Island: Building operations active, employing all available local tradesmen.

Connecticut: Building trades active.

##### *Middle Atlantic District*

New York: Building activities progressing at record pace with shortage of labor felt generally; public improvements and highway repairs absorbing available supply of semi-skilled and common labor.

New York City: Slightly better supply of common labor is available with fewer demands from building and construction work.

New Jersey: Building industry employing full quota of workers.

Pennsylvania: Huge volume of building operations going ahead in every section of the state, combined with state and county roadwork, continue to provide employment to all available skilled and unskilled building labor.

##### *East North Central District*

Illinois: Some let up in building activities.

Indiana: Some curtailment: Revival of building activity after June let-down noted, as labor shortage has been relieved to extent that contracts are safer.

Michigan: Considerable road building, but contractors do not seem to have trouble procuring labor.

Wisconsin: Considerable road work now in progress.

Ohio: Building industry only instance where labor supply fails to equal demand.

##### *West North Central District*

Minnesota: Three and one-half million dollars being spent by state for road maintenance.

Missouri: Let down in building employment.

Iowa: Slackening seen in building construction.

Kansas: Forty-seven counties doing Federal aid work with 200 miles of highways under construction.

South Dakota: Road construction greatly exceed records of former years, and building operations keep mechanics well employed.

North Dakota: Building operations have slowed down and little state road work under way.

Nebraska: A million dollars' worth of state road construction makes heavy common labor demand, with building operations continuing active.

##### *South Atlantic District*

Delaware: Very little unemployment.

Maryland: Common labor surpluses sent to bridge and railway construction in adjacent states, while large number find employment on various road building projects in Maryland.

Washington: District of Columbia: Building construction continued on a

(Continued on Page 589)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Bank Building**, 826-28 East Allegheny avenue, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Beneficial Saving Fund, Twelfth and Chestnut streets, Philadelphia. Sketches being prepared. Too early for details.

**Printing Plant**, Harvey street, near Germantown avenue, Philadelphia. Architect, E. K. Taylor, 315 South Fifteenth street, Philadelphia. Owners, Fleu & Fetterolf, 5954 Germantown avenue, Philadelphia. Reinforced concrete, 2 stories (provision for third), 50x60 feet, steam heat, electric light, slag roof, cement floors, rolled steel sash. Plans in progress.

**Stores and Residence (alts. and add.)**, 4348 Frankford avenue, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, Samuel Gluckman, on premises. Brick, 3 stories, electric light, pine floors, carpentry and mill work. Plans in progress.

**Store and Apartment**, 1173 South Ninth street, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, Anthony Ruggieri, 1140 South Ninth street, Philadelphia. Tapestry brick, 3 stories, 15x60 feet, hot water heat, electric light, tile work, slag roof, pine floors, metal bulks. Plans in progress.

**Theatre (alts. and add.)**, Rising Sun and Loudon street, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Felton Theatre, Samuel Shapiro, on premises. Brick and steel, carpentry and mill work, plumbing, steam heating, painting and glazing, tile and marble work, more cement (electric work reserved). Architect taking bids due September 17th.

**Alterations and Additions**, 730-32 Cheltenham avenue, Philadelphia. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, Graham & Mershon, on premises. Brick, steel, cut stone, 1 story, 28x12 feet, hot water heat, electric light, tile and marble work, slag roof, pine floors, plumbing, iron work. Architect taking bids due September 14th.

**Church and Basement only**, Northeast Boulevard, Seventh and Wyoming avenue, Philadelphia. Architect, Charles Bolton, With-

erspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, on premises. Stone, basement 80x55 feet, marble, leaded glass, lighting fixtures, steam heating, electric lighting, metal lath, concrete roof, ornamental iron work. Architect taking bids due September 19th.

**Alterations**, 513 Pine street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Joseph Levine, on premises. Carpentry and mill work, brick work, marble work, metal lath, plastering, iron work, caon stone, cement plaster, hardware, painting and glazing, plumbing electric work (alts. for heating system). Architect taking bids due September 13th.

**Residence (alts.)**, 1500 South Sixteenth street, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, Dominic Laurelli, on premises. Electric light, tile work, plumbing, composition and pine floors, cement work, carpentry and mill work, painting and glazing. Owner taking bids.

**Store (alts.)**, 2728 Germantown avenue, Philadelphia. Architect, A. S. Dobbin, 1701 Arch street, Philadelphia. Owner, Grover C. Diener, Seventh and Clearfield streets, Philadelphia. Carpentry and mill work, plate glass. Owner taking bids.

**Post Office and Court House (alts.)**, Ninth and Chestnut streets, Philadelphia. Architect, James A. Wetmore, Acting Supervising Architect, Washington, D. C. Owners, Treasury Department, Office of Supervising Architect, Washington, D. C. Roof repairs. Owners taking bids due October 1st, 3 P. M.

**Store**, 800 North Sixty-third street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick work, concrete and cement work, steam heat alts., electric light, metal ceilings, plastering, carpentry and mill work, metal ceiling. Architect taking revised bids due as soon as possible.

**Residences (45)**, Fifty-seventh and Sansom streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. J. Boylan, 5149 Lancaster avenue, Philadelphia. Brick, 2 stories, 16x40 feet, 16x54 feet, hot water heat, electric light, tile

and marble work, metal lath, slag, tin and slate roof, hardwood floors, cement work, garages in basement. Owner ready for sub-bids in a few days.

**Pier No. 84 (plumbing)**, South Wharves, Porter street, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, George F. Sproule, Director, 4 South Wharves, Philadelphia. Installation of street mains for water supply. Owners taking bids due September 19th at noon.

**Philadelphia High School for Girls (fire tower)**, Seventeenth and Spring Garden streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders, W. Langhorne, 5420 Locust street, Philadelphia, \$22,200; Bowden Const. Co., 1935 Chestnut street, Philadelphia, \$23,600.

**School (add.)**, Twenty-third and Federal and Manton streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders: McCloskey Co., 1620 Thompson street, Philadelphia, \$277,429; Ketcham & McQuade, 1029 Brown street, Philadelphia, \$301,977. Plumbing, Daniel J. Keating, 2042 Rittenhouse street, Philadelphia, \$13,925. Electric, J. F. Buchanan Electric Co., 1715 Chestnut street, Philadelphia, \$10,876. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, \$44,788. Ventilating, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$1,465.

**Supplies**, City of Philadelphia. Owners, City of Philadelphia, T. F. Armstrong, Purchasing Agent, 312 City Hall. Fuel oil, cast iron pipe. Owners taking bids due September 17th, 11 A. M. (Standard time), Room 329.

**Shop**, North side Huntingdon street, East of Richmond street, \$70,000. Architect, private plans. Owners, Philadelphia & Reading Railway Co., Twelfth and Market streets. Steel, brick and hollow tile, 1 story, 67x440 feet. Owners will build.

**Residences (2)**, North side Midvale avenue, East of Fox street, \$16,000 each. Architect, private plans. Owners, Johnson & Talley, Room 11, Post Office Building, Germantown, Philadelphia. Stone, 3 stories, 29½x42 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will build.

**Apartment House (alts.)**, 213-15 South Forty-first street, Philadelphia, \$10,000. Architect, A. E. Fox, 4215 Chestnut street, Philadelphia. Owners, Apartment Homes, Inc., Edward F. Binns manager, premises. General alterations. Architect taking sub-bids.

**Residences (6)**, North side Robbins avenue, East of Oakley street, \$24,500. Architect, private plans. Owner, Michael H. Riegel, 337 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 17x31 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (2)**, 2115-17 Pratt street, Philadelphia, \$4,600 each. Architect, private plans.

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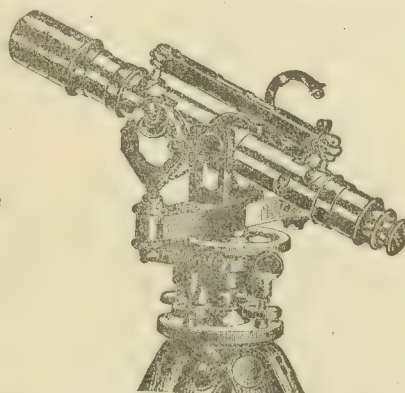
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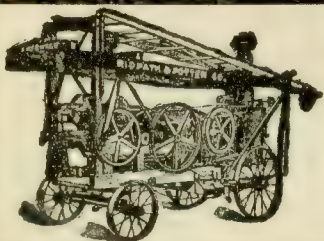
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Owner, Fred Both, 2119 Pratt street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, hot water heat, electric light. Owner will build.

**Residence and Shop**, 5726 Westminster avenue, Philadelphia, \$4,500. Architect, private plans. Owner, Thomas C. Duffy, 5607 Hav-  
erford avenue, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, pine floors, electric lighting. Owner will build.

**Residences (2)**, South side Princeton avenue, West of Montague street, \$6,000. Architect, private plans. Owner, Samuel Gereke, Tyson and Walker streets, Philadelphia. Brick, 2 stories, 16x55 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Store and Manufacturing Building (alts.)**, Southeast Corner Third and Market streets, Philadelphia, \$5,300. Owner, Walter W. Pollock, 18 South Seventh street, Philadelphia. General alterations. Owner will build.

**Residences (2)**, South side Princeton avenue, West of Erdrick, \$5,000 each. Architect, private plans. Owner, John G. Stevenson, 7014 Hegerman street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (4)**, West side Whitaker avenue, North of Cottman street, \$5,000 each. Architect, private plans. Owner, F. Szambin, 7255 Clandze street, Philadelphia. Frame, 2 stories, 16x36 feet, hot water heating, electric lighting. Owner will build.

**Store and Office (alts. and add.)**, Southeast Corner Fifty-sixth and Walnut streets, \$5,000. Architect, private plans. Owner, B. K. Papajian, 5634 Walnut street, Philadelphia. Brick, 1 story, front add., 15x2 feet, and 1 story side add., 2x78 feet, general alterations. Owner will build.

**Residence and Store (add.)**, 6001 Hazelhurst Road, \$4,500. Architect, private plans. Owner, W. E. Garrett Gilmore, on premises. Brick, 2 stories add., 7x28x19 feet. Owner will build.

**Garage**, North side Wyoming avenue, East of B street, \$4,000. Architect, private plans. Owner, Andrew McClay, on premises. Brick, 1 story add., 50x60 feet, slag roof, cement floors. Owner will build.

**Residences (4)**, North side Tinicum avenue, East of Eighty-third street, \$3,000 each. Architect, private plans. Owner, John McEnhill, on premises. Brick, 2 stories, 14x34 feet, hot air heating, electric lighting. Owner will build.

**Residence**, West side Overbrook avenue, North of Linden avenue, \$3,500. Architect, private plans. Owner, Theodore R. Jander, 9314 Overbrook avenue, Philadelphia. Frame, 1 story, 24x40 feet, hot water heat, electric light. Owner will build.

**Storage Building**, North side Dicks avenue, West of Eighty-first street, \$3,000. Architect, private plans. Owner, Oliver C. Greenway, 8116 Chelwynde avenue, Philadelphia. Brick, 1 story, 30x50 feet, slag roof, cement floors. Owner will build.

**Residence (add.)**, 336 South Smedley street, Philadelphia, \$2,400. Architect, private plans. Owner, Mr. Mason, on premises. Brick, 2 story add., 9x12 feet. Owner will build.

**Building (alts.)**, Northwest Corner Delaware River and Queen street, \$2,000. Architect, private plans. Owners, Consolidated Storage Co., on premises. General alterations. Owners will build.

**Rooming House (add.)**, 2033 Arch street, Philadelphia, \$2,000. Owner, Leo Belmont, 2033 Arch street, Philadelphia. General alterations and additions. Owner will build.

**Building (alts.)**, 5555 Germantown avenue, Philadelphia. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, F. J. Campbell, care of architect. General interior alterations into office. Plans in progress. Architect will be ready for bids in one week.

**Service Wing**, Broad and Ontario streets, Philadelphia. Owners, Samaritan Hospital, on premises. Brick, cut stone, steel, 7 stories, 50x181 feet, slag roof, monolithic and linoleum floors, hollow tile, waterproofing, terra cotta, iron work, bond, tile work, metal lath. Architect taking bids due September 19th.

**Cochocksink Recreation Building**, Ann, Cedar and Cambria streets, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, City of Philadelphia, Bureau of Recreation, 595 City Hall. Reinforced concrete, brick and steel, cut stone, 2 stories, 97x62 feet (plumbing, heating and electric separate), slag roof, cement and maple floors, iron work, bond, fire and hollow metal doors, tile work, metal lath (auditorium omitted). Owners taking bids due September 17th.

**Ice Storage Building**, Seventeenth and Washington avenue, Philadelphia. Architect, private plans. Owners, American Ice Co., on premises. Brick, concrete and steel, 3 stories, 80x100 feet, slag roof, concrete floors, plumbing, rolled steel sash, bond, waterproofing. Owners taking bids due September 21st.

**Store (alts.)**, 1031 Chestnut street, Philadelphia. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owners, Wurlitzer Co., 809 Chestnut street, Philadelphia. General alterations and remodeling basement, first and second floors, steam or hot water heat, electric light, tile and marble work, hardwood floors, plumbing, booths, plate glass, copper bulks. Plans about completed. Architect will be ready for bids in one week.

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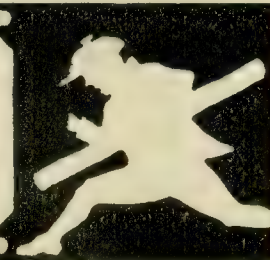
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streets, Frankford, Philadelphia. Architect, private plans. Owners, Frankford Grocery, G. A. Edgar, president, Penn and Unity streets, Philadelphia. Reinforced concrete, 4 stories, 40x90 feet, brick, 1 or 2 stories, 20-car capacity. Architect is ready for bids from general contractors. Barclay White Co., 1713 Sansom street, will figure.

**Residence**, Torresdale avenue and Friendship street, Philadelphia. Architect, John E. Sindoni, 1905 South Sixth street, Philadelphia. Owners, Company, care of architect. Brick, 2 stories, (1) 16x60 feet, (12) 16x41 feet, hot water heat, electric light, slag roof, hardwood floors, metal lath, tile work, cement work, basement garages. Plans in progress.

**Residences (14)**, Emlin street and Mt. Airy avenue, Philadelphia. Architect, J. E. Sindoni, 1905 South Sixth street, Philadelphia. Owner, Company, care of architect. Brick, 2 or 2½ stories, (1) 18x65 feet, (13) 16x45 feet, hot water heating, electric light, metal

lath, tile work, tile roof, hardwood floors, cement work, basement garages. Plans in progress.

**Store (alts.) (new front)**, 1827 East Passunk avenue, Philadelphia. Owner, J. E. Sindoni, 1905 South Sixth street, Philadelphia. Owner, K. Parker, on premises. Tile work, marble veneer, plate glass, copper bars, new store front. Owner will build.

**Garage (add.)**, West side Redfield street, South of Lansdowne avenue, \$5,000. Architect, private plans. Owner, Frank A. Fitzpatrick, 1541 North Sixtieth street, Philadelphia. Brick, side add., 1 story, 51x35 feet, and rear add., 1 story, 56x35 feet, slag roof, cement floors. Owner will build.

**Residence**, West side Ditman street, North Arendell avenue, \$4,000. Architect, private plans. Owners, William F. Ballinger, Jr., Overbrook avenue, South of Linden avenue. Frame, 2 stories, 24x42 feet, electric lighting. Owner will build.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Main Building (add.)**, Brown's Farms, Forty-first Ward, Torresdale, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, City Hall, Philadelphia. Contract awarded F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Residence**, Northwest Corner Thirty-second and Queen Lane, Philadelphia, \$18,000. Architect, private plans. Owner, L. V. Boyd, Thirty-second street, North of Queen Lane, Philadelphia. Stone, 3 stories, 26 feet, 10 inches x 55 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to McClintock & Weaver, 29 West Phil-Elena street.

**Residence (add. and alts.)**, 405 South Tenth street, Philadelphia, \$4,000. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owner, Joseph O'Brien, Tenth and Pine streets, Philadelphia. New front of brick, steel and cut stone, 1 story, 6x4 feet, tin roof, oak and pine floors, steel and cut stone, 1 story, 8x4 feet, tin roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded to Charles D. Hayes, 2524 North Twenty-fifth street, Philadelphia.

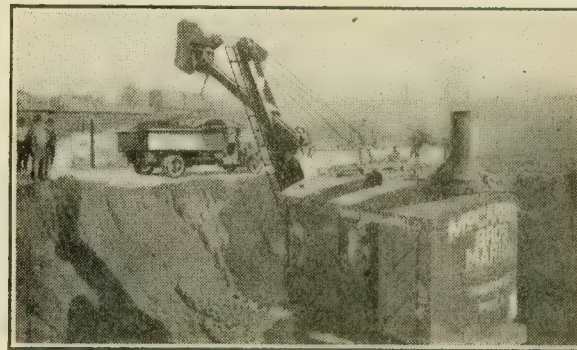
**District Office (alts. and add.)**, Orthodox and Frankford avenue, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, 2 stories, 20x16 feet (plumbing, heating and electric reserved), slag roof, cement

and pine floors, tile and marble work, bond. Contract awarded to E. H. Keefer, 1321 Rodman street, Philadelphia.

**Residence and Garage**, Clapier street, near McKean avenue, Germantown, Philadelphia. Architect, J. L. Connaroe, 225 South Sydenham avenue, Philadelphia. Owner, Mrs. James Mapes Dodge, on premises. Brick, concrete, tile, steel and stucco, 2½ stories, 23x33 feet, hot water heat, electric light, metal lath, shingle roof, oak and pine floors, waterproofing (alt. slag roof). Contract awarded Perry T. McCluskey, 24 South Seventh street, Philadelphia.

**Store (alts.)**, Northeast Corner Fourth and Walnut streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighth street, New York City. Owners, United Cigar Stores, 44 West Eighth street, New York City. Interior alterations, new store front, plate glass. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

**Store (alts.)**, Southeast Corner Tenth and Rockland streets, Philadelphia. Architect, L. E. Denslow, 44 West Eighth street, New York City. Owners, United Cigar Stores, 44 West Eighth street, New York City. Interior alterations, new store front, plate glass. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.



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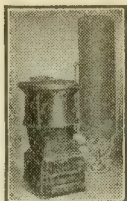
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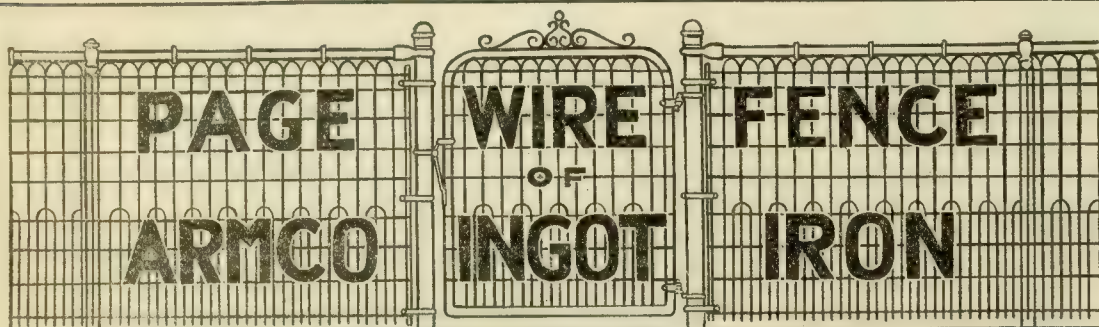
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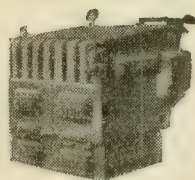
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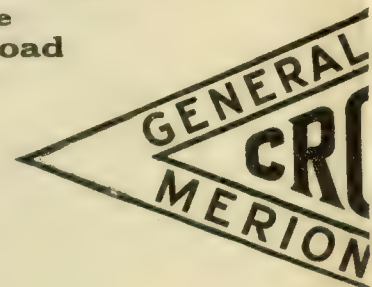
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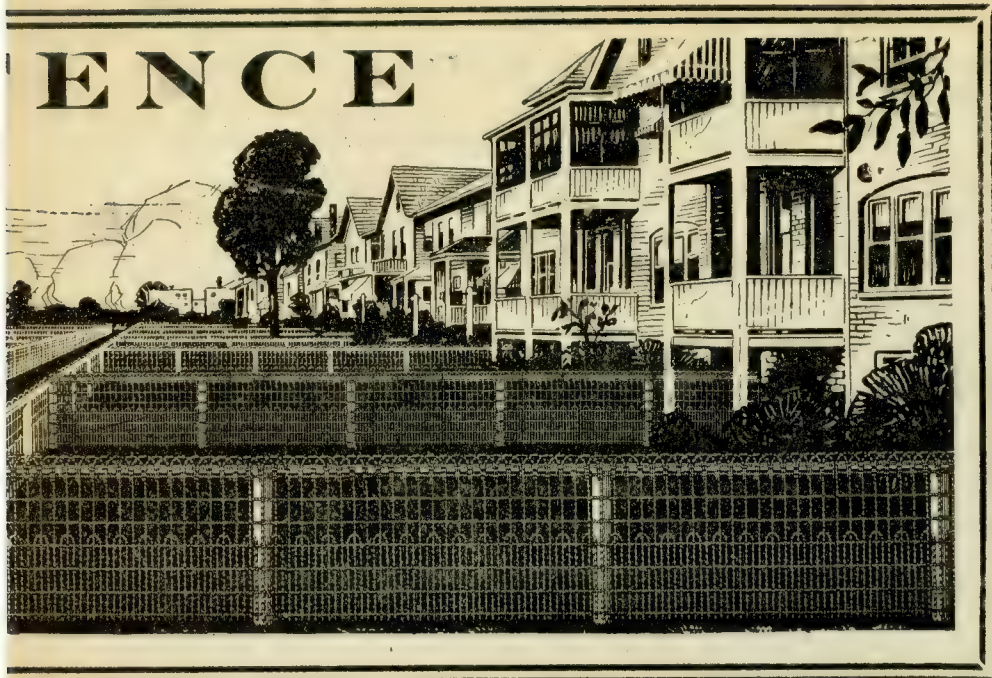
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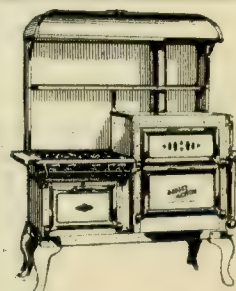
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**Store (alts.)**, 1802 Market street, Philadelphia. Architects, Folsom & Stanton, 10 South Eighteenth street, Philadelphia. Owner, J. C. Fuller, 10 South Eighteenth street, Philadelphia. Brick, sheet metal, electric light, plastering, painting, glazing, carpentry and mill work. Contract awarded to James H. Wells, 344 South Sixteenth street, Philadelphia.

**Garage and Piazza Enclosure to Residence**, 1114 Melrose avenue. Architect, Edward A. Yeo, 225 South Sydenham avenue, Philadelphia. Owner, William S. Yeo, care of architect. Stone, 1 story, 24x21 feet (plumbing, heating and electric reserved), shingle roof, cement floors. Contract awarded Perry T. McCluskey, 24 South Seventh street, Philadelphia.

**Store (alts.)**, 1029 Market street, Philadelphia, \$10,000. Architect, William E. Snaman, Empire Building, Pittsburgh, Pa. Owners, Frank & Seder, on premises. Carpentry, mill work, painting, glazing, plastering. Contract awarded to Miller & England Co., 1124 Washington avenue.

**Garage**, 206-12 North Twenty-second street, Philadelphia, \$20,000. Architect, private plans. Owner, J. L. Shephred, Middletown, Del. Brick, 1 story, 72x132 feet, slag roof, cement floors. Contract awarded to Edward Cunningham, 2220 Chestnut street, Philadelphia.

**Residence**, North side Gates street, East of Matthias street, Philadelphia, \$20,000. Architect, private plans. Owner, William C.

Wright, 3910 Manayunk avenue, Philadelphia. Stone, 3 stories, 29x45 feet, slate roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Contract awarded to William H. Eddleman & Sons, 453 Green Lane.

**Storage Building (add.)**, 616-26 Pine street, Philadelphia, \$10,000. Architect, private plans. Owner, J. T. Riley, 620 Pine street, Philadelphia. Brick, 1 story, 30x141 feet, and 1 story, 24x141 feet, slag roof, cement floors. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

**Manufacturing Building (add.)**, Northeast Corner Twentieth and Indiana avenue, \$15,000. Architect, private plans. Owners, Freihofer Baking Co., Northeast Corner Twentieth and Indiana avenue, Philadelphia. Brick and steel, 1 story, 81 feet, 5 inches x 136 feet, 3 inches, slag roof, steel sash. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street, Philadelphia.

**Residence and Store**, 4618 Woodland avenue, Philadelphia, \$13,500. Architect, private plans. Owner, Alexander Litt, on premises. Brick, 2 stories, 18x58 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Samuel Rubin, 324 Dickinson street, Philadelphia.

**Store and Residence (alts. and add.)**, 701 South Fifty-second street, \$8,000. Architect, private plans. Owner, J. C. Emburg, 5200 Wynnefield avenue, Philadelphia. Brick, 2 stories, 16x13 feet, general alterations. Con-

tract awarded to Frank R. Shriver, Fifty-first and Catharine streets.

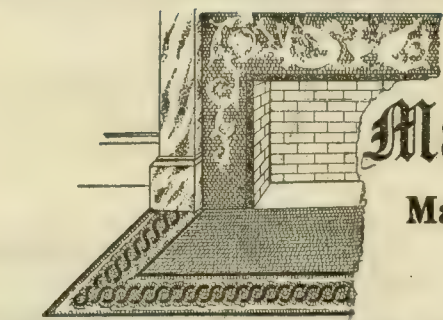
**Residence**, Southeast Corner Prospect and Barclow streets, Philadelphia, \$7,000. Architect, private plans. Owner, Mrs. Sarah Burns, Bustleton Pike, Bustleton, Pa. Frame, 2 stories, 25x28 feet, hardwood and pine floors, electric light. Contract awarded to Charles T. Ely, Trevoise, Pa.

**Garage**, Northeast Corner Almond and Hager streets, Philadelphia, \$5,000. Architect, private plans. Owner, J. J. Brady, 2458 Almond street, Philadelphia. Brick, 1 story, 18x77½ feet, slag roof, cement floors, electric work. Contract awarded to H. H. Davis, 149 North Fifteenth street, Philadelphia.

**Residence**, North side Tyson avenue, East of Loretta street, Philadelphia, \$7,500. Architect, private plans. Owner, Mrs. Mary Rosenthal, 1503 Harrison street, Philadelphia. Frame, 2 stories, 32x50 feet, hardwood and pine floors, hot air heating, electric lighting. Contract awarded to Edward H. Christian, Princeton avenue and Loretta street.

**Store and Office (alts.)**, Southwest Corner Fifteenth and Sansom streets, \$7,800. Owner, Joseph Kaplan, 2246 North Park avenue, Philadelphia. General alterations. Contract awarded to S. Yellin, 3125 Montgomery avenue, Philadelphia.

**Club House (alts. and add.)**, 124 West Girard avenue, Philadelphia, \$5,375. Architect, private plans. Owners, East End Club, on premises. Brick, 3 stories add., 15x26 feet,



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general alterations. Contract awarded to Edward C. Sherry, 1512 North Second street, Philadelphia.

**Residence (alts. and add.),** 2340 North Park avenue, Philadelphia, \$6,000. Architect, private plans. Owner, Joseph Caplan, 2244 North Park avenue, Philadelphia. Brick, second story add., 16x8 feet, general alterations, also garage, 1 story, brick, 20x19 feet, \$1,200. Contract awarded to Warren Smith, 3725 North Sydenham street, Philadelphia.

**Extension Battery Plant,** Broad and Lehigh avenue, Philadelphia, \$5,000. Architect, Samuel T. Wagner, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading Railway Co., Twelfth and Market streets, Philadelphia. Brick and steel, 1 story, 59x16 feet (heating, plumbing, electric reserved), asbestos roof, brick and cement floors, rolled steel sash. Contract awarded F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Residence,** South side Faunce street, West Montour street, Philadelphia, \$5,500. Architect, private plans. Owner, L. Boldovich, Claymont, Del. Frame, 1 story, 20x34 feet, 8 inches, and second story, 20x16 feet, hardwood and pine floors, electric lighting. Contract awarded to John Moldoven, Roebling, N. J.

**Store and Apartment House (alts.),** Northwest Corner Thirty-first and Diamond streets, \$6,300. Architect, private plans. Owner, Esther Schuster, 5454 Locust street, Philadelphia. General alterations. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Residences (4),** West side Ditman street, North of Wingate, \$4,500 each. Architect, private plans. Owner, M. J. Williams, 3011 Linden avenue, Philadelphia. Brick, 2 stories, 15x44 feet, hot water heating, electric lighting. Contract awarded to A. W. J. Williams, 3011 Linden avenue, Philadelphia.

**Residence,** West side Cowden street, South of Murray street, \$4,000. Architect, private plans. Owner, William J. Curry, 1901 Fisher's avenue, Philadelphia. Frame, 2 stories, 24x30 feet, electric lighting. Contract awarded to A. W. J. Williams, 3011 Linden avenue.

**Factory (alts.),** Southwest Corner Second and Indiana avenue, \$4,000. Architect, private plans. Owners, William Scholer & Son, on premises. New elevator. Contract awarded to Albert Dunlap, 7223 Oak avenue, Philadelphia.

**Garage,** South side Rhaun street, West of

Frankford avenue, \$5,000. Architect, private plans. Owner, Samuel Kelly, Cottman street, Holmesburg, Philadelphia. Brick, 1 story, 120x20 feet, slag roof, cement floors. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

**Residence and Store (alts.),** 2221 Gray's Ferry avenue, \$4,700. Architect, private plans. Owner, M. Askasitz, on premises. General alterations. Contract awarded to Negin & Klyman, 2440 South Reese street.

**Residence and Store (alts.),** 3513 Wharton street, Philadelphia, \$3,500. Owner, M. J. Donata, 3520 Wharton street, Philadelphia. General alterations. Contract awarded to James Ersolani, 1920 Pierce street, Philadelphia.

**Building (alts.),** 1825 Spring Garden street, Philadelphia, \$3,500. Architect, E. Parmenter, Fort Washington, Pa. Owners, Provident Life, Health & Accident Co., 1332 Spring Garden street, Philadelphia. Carpentry, mill work, painting, glazing, plastering. Contract awarded to George E. Gross Co., 1613 Chestnut street, Philadelphia.

**Garage,** 1536-38 North Fifty-ninth street, Philadelphia, \$3,500. Architect, private plans. Owners, Grogan & Roman, on premises. Brick, 1 story, 34x90 feet, slag roof, cement floors. Contract awarded to Thomas Flynn, 339 Horton street, Philadelphia.

**Manufacturing Building (alts. and add.),** 3328 Germantown avenue, \$3,250. Architect, private plans. Owners, W. L. Trainer Co., 3328 Germantown avenue, Philadelphia. Brick, third story add., 10x23½ feet, slag roof, general alterations. Contract awarded to J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

**Store and Storage Building (alts.),** Northwest Corner Tenth and Race streets, \$2,500. Architect, private plans. Owner, M. H. Orwitz, Sixth and Girard avenue, Philadelphia. General alterations. Contract awarded to Shechtman Brothers, 2734 North Seventh street, Philadelphia.

**Alterations,** 452-54 North Sixtieth street, Philadelphia, \$2,300. Architect, private plans. Owner, Thomas Hoyle, on premises. General alterations. Contract awarded to John H. Patterson, 6209 Girard avenue, Philadelphia.

**Garage,** Southeast Corner Front and Seltzer streets, Philadelphia, \$2,500. Architect, private plans. Owner, Elmer Miller, 519 East Allegheny avenue, Philadelphia. Brick, 1 story, 41x18 feet, slag roof, cement floors. Contract awarded to A. E. Barnes & Co., 2044 East Clementine street.

**Building (alts.),** 1239 North Thirteenth street, Philadelphia, \$2,000. Architect, private plans. Owners, Varvontis Brothers, 1239 North Thirteenth street, Philadelphia. Gen-

eral alterations. Contract awarded to Athens Contg. Co., 5508 Haverford avenue.

**Store (alts.),** 530 Market street, Philadelphia, \$2,000. Architect, private plans. Owner, S. Wolff, 117 Market street, Philadelphia. General alterations. Contract awarded to A. Sciambi, 2610 Reese street, Philadelphia.

**Residence (add.),** 6403 Race streets, Philadelphia, \$2,000. Architect, private plans. Owner, Philip Antezza, 6403 Race street, Philadelphia. Brick, 2 stories, 12 feet, 6 inches x 9 feet add. Contract awarded to Gourly Const. Co., Twenty-first and Ridge avenue.

**Residence and Store (alts.),** 2752-54 Kensington avenue, \$2,000. Architect, private plans. Owner, E. I. Shuttleworth, 3054 Kensington avenue, Philadelphia. General alterations. Contract awarded to Roland Bale, Jr., care of owner.

**Residence and Store (add.),** 112 West Sharpnack street, \$2,000. Owner, Edward Jackson, on premises. Brick, 1 story add., 9x30 feet. Contract awarded to W. A. Evitts, 5001 Chestnut street, Philadelphia.

**Home (alts.),** 609-11 North Forty-third street, Philadelphia, \$2,000. Owners, House of St. Michael and All Angels, on premises. Carpentry, mill work, iron work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residence and Store (add.),** 1500 South Sixteenth street, Philadelphia, \$2,400. Owner, Dominick Lavarelli, on premises. Brick, 2 stories add., 17x10 feet. Contract awarded to Frank Sonsoni, 1608 Dickinson street, Philadelphia.

**Garage (add.),** 5814 Sprague street, Philadelphia, \$2,000. Architect, private plans. Owner, Joseph Aiells, 5812 Sprague street, Philadelphia. Brick, 1 story add., 40x40 feet, 8 inches, slag roof, cement floors. Contract awarded to Lester Halderman, 3615 Locust street, Philadelphia.

## Pennsylvania

### Construction News

**Rectory,** Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Sts. Simon and Jude's Parish, Rev. E. Stapleton, Bethlehem, Pa. Brick, 3 stories, 37x76 feet, slate roof, hardwood floors, vapor vacuum heating, electric lighting, tile work. Plans in progress.

**Bleachery,** Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Snow White Bleachery, Royersford, Pa. Brick, stone and concrete, 2 stories, 50x200 feet, rubberoid roof, reinforced concrete floors, steel sash, metal sky-

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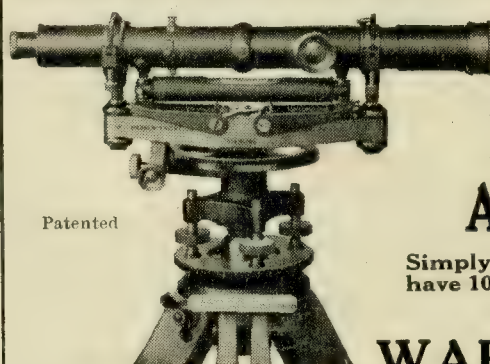
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lights, (6) roof ventilators, (1) elevator, bond, floor hardener, dampproofing, electric lighting (heating, drying and ventilating apparatus reserved). Plans in progress.

**Store (add.)**, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, F. E. Bader, Bridge street, Phoenixville, Pa. Brick and stone, 1 story, 25x50 feet, tin roof, concrete and wood floors, steam heat, electric light, metal skylights, metal roof ventilators, store front. Work contemplated.

**Parochial School and Auditorium**, Nineteenth and Providence avenue, Chester, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Robert's Roman Catholic Church, care of Rev. R. J. Thompson, Chester, Pa. Stone, 3 stories, 65x160 feet, will contain 16 class rooms and gym. Auditorium, 1 story, 40x117 feet, slate roof, steam heat, electric light. Plans completed. Architect will be ready for bids in one week.

**Bungalow**, Chester road and Baltimore avenue, Delaware County, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. C. Thompson, 1216 Arch street, Philadelphia. Stone and shingle, 1½ stories, 34x52 feet, steam heat, shingle roof, electric light, pine floors. Owner taking bids.

**Auto Service Station**, Bustleton avenue and Welsh road, Bustleton, Pa. Architect, Christian H. Fries, 8237 D street, Fox Chase, Pa. Owners, R. A. Erwin Motor Co., on premises. Brick, concrete, cut stone, steel, 1 story, 189x80 feet, slag asbestos roof, composition and cement floors, hollow tile, waterproofing, iron work, kalamein floors, galvanized iron and rolled steel sash and skylights. Architect taking bids due September 17th.

**Warehouse**, Cameron and Reily streets, Harrisburg, Pa., \$75,000. Architect, private plans. Owners, W. J. Schoonover Glass Co., Scranton, Pa. Brick, concrete and steel. Owners will build.

**Plumbing**, Lansdowne, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Keystone Supply Co., Lansdowne, Pa. Plumbing. Architect taking bids due September 14th.

**Storage Warehouse**, Shamokin, Pa. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owners, Chamberlain Amusement & Enterprise Co., Shamokin, Pa. Reinforced concrete and brick, 2 stories, 20x30 feet, built-up roof, cement floors, electric light, rolled steel sash, steel doors, structural steel and reinforcing, miscellaneous iron work. Plans completed. Owner will take general bids.

**Residence**, Fox Chase, Pa., \$13,000. Architect, C. H. Fries, Fox Chase, Pa. Owner, Mrs. Ella G. Baxter, 310 Borbeck street, Philadelphia. Frame and stucco, 2½ stories, 25x50 feet, hot water heat, electric light, shingle roof, pine floors, tile work, cement work. Plans in progress. Architect will be ready for bids in 3 weeks.

**Residence**, Fox Chase, Pa., \$15,000. Architect, C. H. Fries, Fox Chase, Pa. Owner, Paul Cameron, 412 Rhaun street, Fox Chase, Pa. Frame, 2½ stories, 27x52 feet, hot water heat, electric light, shingle roof, hardwood floors, tile work, cement work, shrubbery. Plans in progress. Architect ready for bids in 3 weeks.

**Washington Memorial Chapel** (add. bay to porch), Valley Forge, Pa. Architect, Zantinger, Borie & Medary, Otis Building, Philadelphia. Owners, Washington Memorial Chapel, Valley Forge, Pa. Cut stone, matching present roof, carpentry and mill work, painting. Contract awarded H. H. Burrell, 206 South Quince street, Philadelphia.

## Pennsylvania Contracts Awarded

**School Building**, Rosemont, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Thomas' Roman Catholic Church of Villa Nova, Rosemont, Pa. Stone, granite, terra cotta, steel, 2 stories, 90x61 feet, slag roof, maple floors, metal lath, tile and terrazzo work, bond, terra cotta. Contract awarded to M. L. Coneen & Son, Fifty-fourth and Woodland avenue, Philadelphia.

**Machine Shop**, Lancaster, Pa. Architect, William P. Erisman, Woolworth Building, Lancaster, Pa. Owners, Barry & Zecher Co., Lancaster, Pa. Cinder block, 1 story, 100x34 feet, composition roof, concrete floors, electric light, rolled steel sash, fire doors. Contract awarded to Herman Wohlsen, Lancaster, Pa.

**Residences (3)**, Merion, Pa., total \$50,000. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, William E. Hexamer, 932 Chestnut street, Philadelphia. Stone and stucco and (2) frame and stucco, 2½ stories, 38x26 feet, wing 24x18 feet, shingle roof, hardwood floors, electric light, hot water heat, tile work. Contract awarded Edward H. Smith, Lansdowne, Pa.

**Telephone Building** (alts. and add.), DeKalb and Penn streets, Norristown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories, 120x30 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble, bond. Contract awarded J. N. Gill Const. Co., Otis Building, Philadelphia.

**School** (alts. and add.), Highland Park, Pa. Architect, J. L. Coney, Drexel Building, Philadelphia. Owners, School District of Highland Park, Pa. Contract awarded: Electric work, George Rudolph, Highland Park; heating, Henry Kenecht, Oaklyn, Pa.

## New Jersey Construction News

**Residence**, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, Mr. Russa, care of architects. Brick, 2½ stories, 36x24 feet, slate or tile roof, hardwood floors, steam or hot water heat, electric light, tile work. Plans in progress. Will be ready for bids in one week.

**Apartment** (alts. and add.), 113 West State street, Trenton, N. J. Architect, Walter Hankin, 39 E. State street, Trenton, N. J. Owner, F. A. Reddan, care of architect. Brick and stucco, 2½ stories, 15x22 feet, slag roof, pine floors, hot water heat, electric light, hollow tile, metal lath, tile work, hollow metal skylights. Architect taking bids due September 18th.

**Hotel Ocean Sunset**, Sixth avenue and Kingsley street, Asbury Park, N. J. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York. Owners, Berkeley-Carter Hotel Co., Asbury Park, N. J. Brick, east stone, limestone, cut stone, steel, 10 stories, building 131x65 feet, 4 wings, 73x45 feet (plumbing, heating, electric elevators reserved), slag and tile roof, concrete, oak and rubber tile, metal lath, metal weather strip, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, kalamein doors, rolled steel skylights, tile, marble and terrazzo work. Turner Const. Co. taking sub-bids at 1713 Sansom street, Philadelphia, due Sept. 17.

**Women's College**, New Brunswick, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, care of architects. Brick, steel, concrete, hollow tile, 2 stories and basement, 158x78 feet, slate roof, mastic and hardwood floors, hollow tile, roof ventilators (heating, plumbing and electric work reserved), tile and marble work, rolled steel sash and skylights, iron stairs. Lowest bidder: Charles J.

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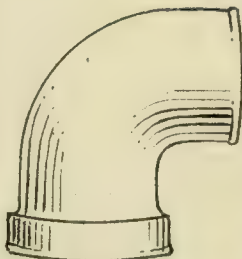
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**Water Distribution Mains, Extensions and Sanitary Sewers,** Haddonfield, N. J. Architects, Remington & Vosbury, Court House Square Building, Camden, N. J. Owners, Board of Commissioners, Borough of Haddonfield, Allen Clymer, Borough Clerk, Haddonfield, N. J. Approximately 5,736 lineal feet 4-inch and 6-inch cast iron B and S pipe, 12 4-inch and 5-inch fire hydrants, 11,335 lineal feet 8-inch x 10-inch terra cotta pipe sewers, 53 manholes, bond. Owners taking bids due September 20th, 8 P. M. (daylight saving). Deposit, \$5.00. Refund, \$2.00.

**School,** 12 Pennsylvania avenue, North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia, Pa. Owners, School Board of North Wildwood, Thomas Akarman, secretary, North Wildwood, N. J. Brick, cut stone, steel, 3 and 2 stories, 164x36 feet, 91x52 feet (heating, electric separate), asbestos built-up roof, cement and maple floors, metal lath, tile and marble work, rolled steel sash, hollow metal doors, bond, iron stairs and work, safety treads, hollow tile. Owners taking revised bids due September 20th.

**Road Work,** Trenton, N. J. Owners, State Highway Commission, Trenton, N. J. Route No. 4, Section No. 22, Main street, Asbury Park, Monmouth County, 8,404 cubic yards excavation, 19,001 square yards 6-inch concrete foundation, 3,538 square yards 9-inch concrete foundation, 21,956 square yards sheet asphalt surface, 524 square yards stone block surface. Owners taking bids due September 24th at 11:20 A. M., Standard Time, at Assembly Chamber, State House, Trenton, N. J. A. Lee Grover, Chief Clerk. Deposit of \$10 required.

## New Jersey Contracts Awarded

**Hotel Brighton (add.),** Atlantic City, N. J. Architect, Lloyd Titus, Hotel Strand, Atlantic City, N. J. Owner, Frank B. Off, Hotel Brighton, Atlantic City, N. J. Reinforced concrete, steel, granite, brick, 5 stories, loft and basement, 96x45 feet and 72x54 feet (heating and plumbing reserved), slate roof, pine floors, hollow tile, elevators, metal weather strips, waterproofing and dampproofing, terra cotta, iron work and stairs, bond, tin-clad and kalamein doors, copper skylights, sheet metal sash, tile and marble work, metal lath, electric lighting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Residence,** Cransford, N. J. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, Pasquale Bel Peschio, care of architect. Brick, 2 stories, 17x52 feet, pipeless heat, electric light, slag roof, pine floors, plumbing. Contract awarded to A. Nardy & Sons Co., 761 South Thirteenth street, Philadelphia.

## Miscellaneous Construction News

**Industrial School for Boys,** Pruntytown, W. Va. Architect, R. A. Gilles, Fairmount, W. Va. Owners, State Board of Control, Charleston, W. Va. Architect taking bids due September 26th.

**School for Colored Deaf and Blind Institute,** West Virginia, Pruntytown, W. Va. Architect, R. A. Gilles, Fairmount, W. Va. Owners, State Board of Control, Charleston, W. Va. Architect taking bids due September 26th.

**Garage,** 2410 Pennsylvania avenue, Wil-

mington, Del. Architects, Brown & White-side, Dupont Building, Wilmington, Del. Owner, R. T. Ellis, 2410 Pennsylvania avenue, Wilmington. Brick, 1 story, 25x25 feet, slate roof, cement floors, hot water heat, electric light. Contract awarded to Charles Forwood, Twenty-first and Boulevard, Wilmington.

## Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 5, 1923. Sealed Proposals will be opened in this office at 3 P. M., October 1, 1923, for repairs to roof and so forth at the United States Post Office and Court House at Philadelphia, Pa. Drawings and specifications may be obtained from the Custodian at Philadelphia, Pa., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 580)

huge scale and creates slight labor shortages.

West Virginia: Practically all skilled labor employed and good balance between supply and demand of common labor, with large building programs and considerable state and municipal construction work.

Virginia: Labor supply generally adequate for various municipal and state projects.

North Carolina: Building programs continue on large scale and road construction draws heavily upon labor sources.

South Carolina: Labor supply and demand well balanced on building operations.

Georgia: Building programs continue to employ available supply of tradesmen.

Florida: Extensive building program.

### East South Central District

Kentucky: Highway construction added to forces during July.

Tennessee: Highway construction survey shows 50 per cent. labor shortage, but situation is being relieved, large building program continues.

Alabama: Building continues heavy with scarcity of some tradesmen.

Mississippi: Road construction hampered by labor shortage.

### West South Central District

Louisiana: Surplus noted among workers on frame buildings, while bricklayers and allied workers are in steady demand.

Oklahoma: Employment shows a downward trend, as regards workers on frame structures, with shortage of bricklayers and associated tradesmen.

Texas: Building construction continues brisk.

### Mountain District

New Mexico: Very large highway program under way, with building program, though not large, continuing active.

Arizona: Building continues active.

Utah: Considerable activity in highway construction and building.

Wyoming: Large construction program in oil field, with building active in larger cities.

Nevada: Employment demands have shown increase.

Idaho: Shortage of building craftsmen in some sections.

Montana: Highway construction is exception to let up in labor demands.

Colorado: Increased building and construction activities.

### Pacific District

California: Building activities have fallen off slightly except in one or two places.

Oregon: Construction retarded, due principally to high costs.

Washington: Building operations continue, with several large projects under way.

Alaska: Construction at standstill as result of costs of materials.

## THE CAUSE OF OUR SHORTAGE OF MEN

Extracts from Address Before New York Building Congress

BY BURT L. FENNER

Member of McKim, Mead and White, Architects

With the employers on the one hand, and labor on the other filling the columns of the press, a smoke screen has been created which seems to me to obliterate a few simple facts. I want to state a few facts as I see them.

The normal growth of the country requires a certain normal growth of buildings. From 1914 to 1918 new construction fell far below normal. Since 1918 the new construction has barely met the needs of normal growth, and the demand of war needs has not yet been met. The

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Philadelphia



demand today is much more normal and will so continue.

Furthermore, in nearly all the skilled trades the supply of skilled mechanics has actually decreased, until today there are not more than 60 per cent. as many available in many trades as there were ten years ago. There is also a shortage in many lines of building material, due in part to shortage of labor for erection of buildings, for manufacturers won't operate their plants to capacity unless reasonably assured that their products will meet that demand.

The old law of supply and demand is still in force. On the one hand we have an abnormally great demand. On the other hand an abnormally small supply, both of mechanics and materials. The result is inevitable. The highest bidder gets the men and the material, and costs continue to mount.

Now, what is the remedy? Decrease the demand or increase the supply? The former will take place automatically when prices become prohibitive, and of course in any case it is not a remedy. The latter will not take place unless a concerted and continuous effort is made. The supply of materials can be increased with little difficulty, as there is practically adequate plant capacity in all lines, but the supply of skilled mechanics cannot be increased so easily.

Here lies the chief difficulty and it is one which will require years of systematic effort to meet. We shall doubtless continue to receive some few small numbers of skilled mechanics from Europe. Contrary to the general impression, the immigration law has not materially reduced the number of skilled mechanics coming from Europe. For twenty years that has been practically negligible. It follows then that we must depend upon our efforts and educate our own American boys for the skilled trade.

This is the job which the Apprenticeship Commission has undertaken. The Congress began the work by devising a plan of operation and securing its acceptance in principle by the organizations representing the employers and labor.

The necessity of building up the ranks of skilled labor is not controversial. It is admitted by employers and labor alike.

The statement may surprise you, but some of you may be under the impression that organized labor has by arbitrary measures made it impossible to employ apprentices. I want to correct that impression, if it exists, by stating that while it is true that generally the unions set a limit to the number of apprentices who may be employed, in not one of the more than thirty unions employed in the building industry are the employers using anywhere near the number of apprentices allowed by the union rules.

The Commission holds that a thorough

and well-rounded course of training requires a period of four years; that the bulk of the training should be given in the shop or on the job; but that, along with learning HOW on the job, the boy should attend school to learn WHY.

From the outset we have met with the most enthusiastic support and co-operation from the Board of Education. Well-equipped class-rooms and teachers have been supplied. Courses of study have been prepared by us and been adopted. Ample funds have been provided. In short, the school authorities have met our efforts in the heartiest spirit of co-operation.

These major questions presented themselves in the first year: First, would the industry give to the question the necessary financial support? That question has been definitely and positively answered in the affirmative, both by employers and labor.

Second, could American boys, who seem to have a preference for the so-called white-collar jobs be induced to join the ranks of skilled artisans? We have no positive evidence, or positive proof at least, on that question, but up to the present time there never has been a moment when we have not had more applications for positions as apprentices than we could fill. I am satisfied we need look for no serious difficulty in that direction in the future.

Third, would employers of labor who had already endorsed our plan in principle join together to put it into operation? In approximately one-fourth of the trades, that has been actually accomplished, and some six or seven hundred boys have been enrolled and are at work in the shops and at the schools.

It is the employers who will benefit most by an adequate supply of labor, and yet only a small minority are able to see that apprentices, though perhaps a liability for the first few weeks of their training, become a rapidly increasing asset and benefit from that time on.

The Commission would have no difficulty in interesting you if the work concerned itself only with the building trade. It is only because the industry concerns the whole country that our problem becomes one of public importance which justified us in intruding upon your time.

The building industry is sick. One of the sorest spots is the shortage of skilled labor. A practical cure is available. The patient must be made to take the cure. The public generally should insist upon it, for the business health and prosperity of the country cannot but be adversely affected by the sickness of so important and vital a part of its body.

And there is another aspect of our work. We are bringing up boys to better citizenship. The seeds of radicalism and discontent can find no congenial soil

among the ranks of prosperous, self respecting, highly-skilled craftsmen. On this ground alone, our work deserves the support of yourself and of the public generally.

#### NEW STANDARDIZATION PHASE *Movement Reaches Point Where Contractors' Aid is Vital Factor*

Adoption of standards for concrete mixers and wheelbarrows, accomplished with a directness of action rarely excelled in the field of standardization, now looks toward fullest co-operation by contractors for realization of its maximum benefits. Approval of these standards means much to the construction industry, but this is only one phase of the several that must be linked together to bring the ultimate aims of the program into effect.

Contractors now must carry out the second phase of the program by choosing their equipment to give fullest effectiveness to the standards recently placed in force.

Manufacturers are given until 1925 to dispose of the non-standard equipment they now have in stock. The swinging of standard equipment into general use will have been accomplished long before the end of the coming year, however, since this wide leeway was given the manufacturers to assure fairness to them, not being designed to indicate the length of time which would elapse before the standardization would be completed in effect as well as in word.

Equipment of the accepted standards of type will carry plates showing authorization by the Associated General Contractors, and eventually none but mixers and wheelbarrows of this type will be available upon the market, according to the program of the joint committee on equipment standards. The oft-repeated statements of benefits derived from standardization then will apply fully to this branch of industry.

Until such time, however, as the stocks of the manufacturers will be cleared of equipment that does not comply with the approved standards, it will be necessary for contractors to weave in use of standard and non-standard types.

Plates to be placed upon equipment conforming to standards soon will be available to the manufacturers and will make their appearance on the market on mixers and wheelbarrows that will be sold alongside of non-standard types until the manufacturers have cleared their stocks of all but the standardized products.

Contractors are fully warranted to anticipate the adopted standards to reflect themselves in equipment prices, since the overhead of manufacturing a number of unnecessary types will be eliminated at the earliest possible time. As previously



pointed out, however, the contractors must co-operate closely if the desired results are to be obtained in their entirety.

We note in a recent issue of the BUILDER'S GUIDE, a writer in the Washington State Architect quoted as saying stucco should be painted.

Every time we open our mouths to say "it can't be done," we reflect on Montaigne's warning to "the young man" not to be hasty in believing a thing can not be done because one has not seen it done. There are, indeed, "many strange things in this world."

However, the general belief is that paint can not be made to adhere permanently to concrete or mortars. The tests of the United States Bureau of Standards would seem to confirm this belief.

The Washington man speaks casually of the operation; ignoring the widespread ignorance of any pigment that can be employed with proper results. He should assuredly elaborate his theme and give directions for the obtaining of the correct material.

Whereas, this writer asks for our credulity in the matter of paints, he is evidently not open to conviction himself on the question of obtaining a stucco without mass cracks.

A Portland cement stucco can be obtained with a 1-3 mix that will not have any mass cracks. A solid stucco mass that is properly worked and applied will not allow of the entrance of water in the mass and will therefore be free of frost cracks.

We will be glad to conduct this western writer around anytime he is east and show him some stucco jobs that are free of these defects.

WILLIAM C. KOBER, *Secretary*,  
Adensite Company, Inc.

## FLOOR LOADS FOR OFFICE BUILDINGS

Earnest consideration of the question of the proper magnitude of live loads for office building floors is being given by the Building Code Committee of the United States Department of Commerce, and facts of great importance to the structural engineer are being disclosed. Observations which have formed the basis of present specifications are being supplemented by careful studies of floor live loads of numbers of buildings in the United States.

Up till the present the most important series of floor live load studies ever conducted was that of Blackall and Everett, carried out in Boston, thirty years ago. According to their observations, which

were made on the floors of three large office buildings in Boston, the highest live load found in any one office amounted to 40.2 lbs. per square foot. The average of the ten heaviest loadings in each of the three buildings amounted to only 25.9, 29.8 and 29.0 lbs. per square foot. This directed in a striking manner attention to the remarkable lightness of usual maximum loads on office building floors, and one of the incidental facts established was that a very considerable reduction of live load in the design of columns might be made. This arose from the fact that the greatest maximum average for all floors of any one of the buildings investigated was 17 lbs. per square foot, or 42 per cent. of the maximum observed floor load on any one floor. Hence it has followed that most structural engineers are prepared to design the lower tiers of columns for a tall building for a live load not over 50 per cent. of the maximum possible live load on all floors above.

The most important of the recent investigations made by the Building Code Committee is that on the Equitable Building, New York City, regarded as probably the largest office building in the world. As reported by *Engineering News-Record*, the maximum loads observed varied from 30.7 to 78.3 lbs. per square foot, although in the latter case, if certain book shelves had been filled, the loading would have amounted for the room in question to 87 lbs. per square foot. The latter load occurred in a room which was selected as one of specially heavy occupancy, being devoted to the housing of a large law library. The above figures relate of course, particularly to the problem of floor design. So far as column design is concerned, the figure to be noted is about 11.6 lbs. per sq. ft., which represents the average live loads on the three floors particularly chosen for study. Excluding offices given over to a specially heavy occupancy, the maximum floor load observed was 55.4 lbs. per square foot, and comparing the average load on the three floors with this, it is seen that it is scarcely more than 20 per cent. of the maximum. In this we have additional ground for liberal reduction of column live loads.

Another investigation undertaken by the committee was on the building of the Union Central Life Insurance Co., Cincinnati. Several large sections of different stories of this building devoted to clerical and filing purposes were studied. The average weight of furniture for these sections was 7.4 lbs. per square foot, and if to this be added the weight of employees not exceeding 1.8 lbs. per square foot, it is seen that the average loading is not above 9.2 lbs. per square foot, although the office floors were designed for 50 lbs. per square foot.—*Architect and Engineer*.

## SIMILARITY OF DEFECTS IN LUMBER

No kind of tree produces lumber that is entirely free from defects and blemishes. The same irregularities in the wood, natural and accidental, are likely to occur in all species; and in all woods used for the same purpose the effect of a certain defect on the strength and quality is about the same.

Knots are probably the most common of the natural defects in lumber. Most branches of forest grown trees originate at the center of the trunk and grow in diameter and length so long as conditions are favorable. The branch end or knot in the trunk is therefore typically shaped like a cone with its apex at the pith. A branch end when sawed through appears on a flat grain surface as a round knot and in vertical-grain material as a spike knot. Many of the lower branches in forest-grown trees die and fall off when the upper branches cut off too much of their light. As the tree continues its diameter growth, new wood surrounds the stubs of the branches. When the log is cut up these covered stubs are found in the lumber as encased knots.

All trees do not have pitch streaks or pitch pockets, but such blemishes are found in the majority of softwoods. The amount of pitch often varies as much within a species as it does between species. A typical pitch pocket in southern yellow pine may be shorter and wider than one in Douglas fir, but if they are equal in area they are practically equivalent in damaging effect.

The same kind of blemish-producing accidents happen to all kinds of wood. Holes produced by loose knots falling out, by grubs, insects, and birds, and by tools appear in all kinds of lumber. Fire scars are found in all species of trees.

All woods are more or less subject to the attack of some decay-producing fungi which work in the sapwood or in the heartwood. Checks, cracks, splits, case-hardening, honeycombing, warping, and other seasoning defects are likely to be found in any kind of wood. Manufacturing defects, such as planer skips—the result of cup, bow, crook, and twist—may occur in all species. All lumber may have cross grain, shake, and stain.

Certain defects may be more prominent in one wood than in another, but there are more points of similarity than dissimilarity in the defects present in different species. The U. S. Forest Products Laboratory, Madison, Wisconsin, has made use of this fact in the drawing up of standardized grading rules for the grading and selection of softwood lumber. These rules recognize certain defects as the equivalent of others and limit the size and number of defects permissible in each grade. They are applicable to all softwoods and might be extended to cover many hardwoods.



## CONSTRUCTIONAL

By a Practical Construction  
Superintendent

*Leaks*

One of the most common leaks, we note, in our ups and downs of the Construction Field, is the handling of materials, mixing and placing of concrete.

A cheap inefficient superintendent or foreman in charge of such work can readily lose 100 times the difference necessary to have a first class efficient man, on the job, who takes pride in his work.

For instance, you are pouring a 1-2-4 mixture of concrete. The foreman has failed to measure or have his men measure, with a unit such as a cement sack, the quantities of sand and gravel or trap rock, so that proper proportions will be obtained. He has failed to mark the wheelbarrows with a line of paint or chalk around the inside of the body, so that every barrow will be loaded as far as practical with the proper amount.

The mixer starts and charging commences. The men, as the day progresses, become tired or a laggard is in the gang and misses three or four shovelful of gravel on each barrow he loads. Will your cement estimate hold out? Let us say three shovels of gravel are lacking on each barrow, as an average. This makes six to a batch or the equal of one-half a cement bag. You are therefore getting a 1-2-3-½ mixture.

Let us go a little further into this shortage and see the result.

1 batch 4 bags of gravel equals 48 shovelful. Each batch short of gravel equals 6 shovelful, or 12½%. 4¾ cubic feet equal a batch.

6.35 full batches, therefore, bags of cement to a yard, but with each batch short 12½% of the aggregate, it will take proportionately more cement or 7.26 bags to a yard, which is a loss of .91 of a bag per yard.

On a 100 cubic yard basis, the shortage of gravel will cause an additional consumption of 91 bags of cement, or 22¾ barrels at a price, we will say, of \$2.80 per barrel or a financial loss of \$63.70 for excess cement used, so you may add 63.7 cents to the cost per yard, you estimated for short measurement in practical work.

The cost of measuring and marking wheelbarrows should not be more than \$1.60, allowing 16 men to the gang at 50 cents per hour per man, and this allows 10 minutes, which is excessive for a trained gang, to fill and empty six bags and mark the barrows. One proper marking per day should suffice.

We have seen freshly mixed concrete spilled along the wheelbarrows' runs due to poor wheelbarrows, with wabbly

wheels, bent bodies, loose handles and so on; poor runways; careless dumping into forms and leaky forms; also along chute lines due to careless arrangement of chutes, and concrete running over forms. This is not in large quantities in any individual case, and is gradually worked away from the job with other dirt, so that no great quantity of mixed concrete so wasted is apparent in one great bulk, but the waste exists in unbelievable quantities and contains not only cement but all the other aggregates.

The preparation for handling concrete materials, such as temporary platforms or bins of rough lumber, and dry storage for cement mean economy on any job, to the contractor, just as much in proportions to quantities used as the protection of valuable ores and metals to the refiner.

The careful setting of concrete mixer, runways, towers, and chutes are very important, as men take pride in an efficient plant, and produce accordingly with a well-planned and carefully placed plant.

We have seen 4 barrows of gravel, 2 of sand with the men sitting on the handles, WAITING, 2 more barrows in the gravel pile and one in the sand pile loading and another set waiting to be loaded. While the loading was being done by the men placed in the respective piles for this purpose, the wheelers loafed idly by. At the machine we found a machine runner, cement tender and man at discharge chute, with a batch in the charging hopper and one in the machine. On the discharge side of the machine we found six wheelers with a long wheel to the form. We have also seen a similar charging gang on a short wheel to the mixer with a ½ yard tower bucket taking material away. You can find this condition as well as an opposite condition, of small charging gangs and greater capacity for taking the mixed concrete away.

You have no doubt noticed an idle concrete gang and an idle mixer due to some minor breakdown, and one man who in all likelihood is a fairly high priced mechanic chipping at hard cement so he can get to the damaged member. The cutting of the caked material cost more than the actual repairs in time. One man with a hose and broom, at the end of each run, with a little water will remove the material while still soft in ½ to 1 hour time, and this will give him time to oil or grease necessary bearings. Put the cost of this man with a liberal use of oil and water against a possible gang of 16 men at 50 cents per hour idle for 10 minutes. Even the oil will pay for itself in eliminating shutdowns.

On a job of any size there is usually a handy repair man, with a fair knowl-

edge of gasoline engines. If this mechanic would spend a few minutes, after each run of the machine, in examining the adjustments of the engine, trouble may be averted the next day in starting. Possibly the morning would be the time at least ½ hour before mixers start to make this examination, as a cold engine gives most trouble. Another thing that both the foreman and mechanic should do, is have spare parts for both machines and engines on hand or know where to get them quickly, as no machine is beyond breaking a part once in a while.

*Don't you think—*

It is more easy to start a job, when in doubt, with a small organization and build up to the required number of men, than it is to find it necessary, in your judgment, to remove surplus men after the work is started?

Additional men added to a gang makes every man your friend, while taking men away from a gang causes dissension, even though your judgment is absolutely correct?

A periodical efficiency examination of a job, by a practical superintendent would tend to reduce cost and increase the efficiency of the work?

A practical school for executives and foremen for construction work would be as desirable as one for draughtsmen and engineers? Plasterers and Bricklayers?

Periodical talks to the Superintendents and Foremen by the Contractors and the General Superintendents, or other practical men, with interest in the work, would be very helpful on any job?

Job meetings of the field superintendents and foremen every second or third day would be helpful?

The placing, of a few trade periodicals, covering the subject "construction," on the job would be helpful?

Overhanging cornices and projections should be eliminated from our modern type office, business and apartment buildings in the interest of safety?

12 inch rough common pine boards are more economical for concrete forms for rough walls, than dressed lumber or roofers?

A ground supported ready built and bolted bricklayers' scaffold, that could be moved from one job to another, a better practice than building a pole and ledger scaffold as now in general practice?

**Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.**



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CEMENT.

DeFraim Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....1310 Arch St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F. Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FANS AND BLOWERS.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Smith, Edwin A., & Son..1015 Frankford Ave., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc..1844 N. Front St., Phila.  
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## GRATES.

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATERS (Hot Water Service)

Pralatt Equipment Co. ....722 Drexel Bldg., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## KITCHEN CABINETS.

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 38  
September 19, 1923

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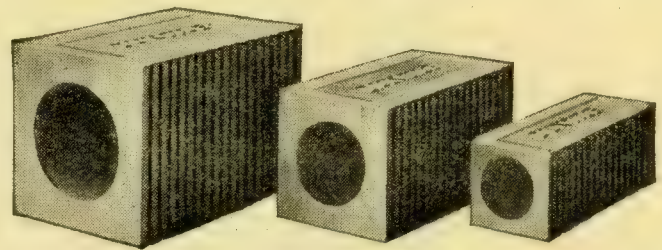
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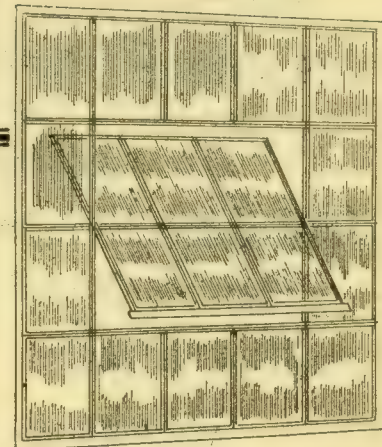
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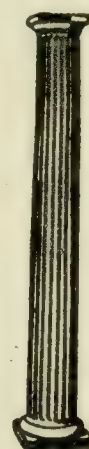
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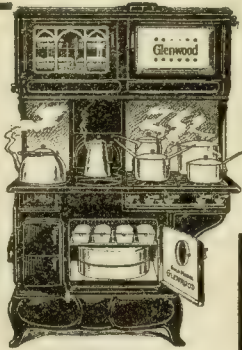


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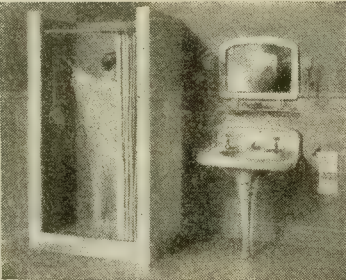
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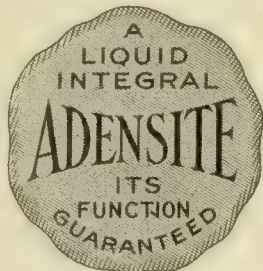
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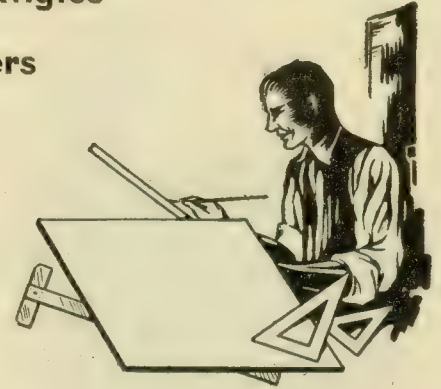
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 38

PHILADELPHIA  
September 19, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

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To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### PRACTICAL ACCIDENT PREVEN- TION WORK AS CARRIED ON BY POST AND McCORD

B. W. DELANEY, *Claim Agent, Post and  
McCord, Inc., New York City*

The only practical way, known to Post and McCord, to prevent accidents in the construction field is as old as antiquity and at the same time seems to hold good against any other form of safety as yet introduced. It is embodied in two divisions:

The exercise of eternal vigilance, or personal surveillance; and the use of the best equipment procurable.

It has been the experience of Post and McCord during the past ten years, in which the firm has carried its own insurance, that over ninety-five per cent. of the accidents occurring among employees working on the many steel structures erected during that period have been due to the carelessness of the injured or to that of his fellow workmen. This in itself emphasizes the necessity of constant watchfulness on the part of both employee and employer, and is supplemented by the fact that many of the most serious accidents which occurred during the period mentioned were due to the momentary carelessness of expert workers; men who had had years of experience in their trade and who were well known as the most careful and competent in their particular line. Hence it is considered necessary to

keep in constant and intimate touch with the men in the field.

This program is personally conducted by the Vice President, Mr. Frank B. McCord and by the Superintendent of Erection, Mr. William H. McCord, through direct contact with superintendents, foremen, sub-foremen, time-keepers, gang bosses, etc., on the various jobs. Every job is visited daily by either of the above men who carefully inspect and analyze, with the superintendent and his assistants, each operation and problem involved in the progress of the work, and so become acquainted with all the men and all conditions. Suggestions and criticisms are invited; infractions of rules detected; penalties inflicted; dangerous practices eliminated; and, in a word, the whole organization kept on its toes both for efficiency in production and prevention of accident. This, the firm believes, makes every man a separate unit of safety. Of course, this system of supervision is supplemented by various efforts to get the men to think safely, but when it comes to influencing the human element the principal dependency is on the verbal contact established between employer and employee in the way above mentioned.

#### *Provide Best Equipment*

In the matter of equipment, it has always been the endeavor of Post and McCord to provide the best and most modern machinery and tools obtainable for construction work. In fact, I think

it may be said without fear of contradiction that the erection plant of Post and McCord is the most complete outfit of its kind in the territory of New York City. This does not merely mean that the plant is large and capable of handling big work, but rather that every tool and piece of machinery, from the drift pin to the fifty-ton derrick, was selected with the predominating thought of Safety First.

I believe it is also a matter of history that Post and McCord were the first contractors in New York City to use steam hoisting engines and compressors in the erection of steelwork, and were likewise the first to abandon steam when electricity had been proved a more desirable power for hoisting and air compression. The substitution of steel for wooden derricks was another forward step in which the firm was a pioneer. As a safety factor, however, I think the company's greatest achievement was through the introduction of wire rope slings for hoisting. For many years prior to 1912 the most serious accidents encountered were caused by the breaking of chains used in hoisting. Despite the closest inspection and most rigid care a chain would frequently break with disastrous results. Therefore, a substitute for chains was often the subject of grave discussion among various engineers and members of the firm. Through these discussions the matter was finally brought to the

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attention of the John A. Roebling's Sons Company, the firm which, after exhaustive experimental work, developed the present day wire rope sling and enabled Post and McCord to be the first in New York to use this valuable factor of safety.

In this respect the firm makes no claim to altruistic motives, simply considering a wide margin of safety the best of insurance protection, a plain duty to the public in general and especially to the employees who have to entrust their lives to the proper performance of the equipment furnished.

Merely purchasing good equipment and putting it on the job does not mean efficiency or accident prevention. The first cost of the average tool or machine used for structural steel erection work is soon lost sight of in the items of upkeep and repairs. Therefore, eternal vigilance is almost as necessary in the inspection and care of the equipment as it is among the men.

At the storeroom of the Company in Brooklyn a complete repair department is maintained. This outfit is in charge of men expert in repairing and overhauling the special machinery, tools and rigging used in erection work. These men are held responsible for the condition of all equipment sent to the various jobs and are therefore careful to have everything in good and safe working order before sending it out.

#### *Co-operation Needed For Education of Employees*

As intimated in a previous paragraph, the firm has never actively pursued a scientifically organized program of safety work among the ironworkers. This is largely due to the fact that in the erection field the average job lasts less than six months or a year, and employees are constantly changing from one employer to another. Consequently, about the time one would have a safety movement ready to function the job would be finished, and on the next job he would have to start all over again with a new group of men. Therefore, it is the opinion of the firm that in order to make the theoretical feature of "safety-first" a success among the rank and file of the men, movement would have to be made through a general headquarters composed of all employers within a certain district, and also through the headquarters of the various unions and organizations of the employees. In this way the message coming from an authoritative source, would reach all trades and cover all conditions involved.

Would not this work of "organizing the organizers" be a task well worth the attention of such a master Safety Force as the National Safety Council? I have read with marked attention of the wonderful success you have had in establishing the safety movement in various in-

dustries throughout the country, and hope that your Structural Department will in the near future be sufficiently strong to have so thoroughly imbued all the building trades, employers and employees, with the spirit of Safety First, so that evidence of a careless accident can only be found in records of the past.

*National Safety Council.*

#### BUILDING CODE

In accordance with the action of the Building Code Committee of the Pennsylvania Department of Labor and Industry at the June 21, 1923, meeting, the Department is endeavoring to expedite the formation of a Building Code to the fullest extent. Copies of the Lower Merion Building Code have been forwarded to the Committee for the purpose of examination. The Harrisburg and U. S. Department of Commerce Codes will also be sent as soon as received by this Department. The comment and criticism received from the Committee will then be compiled and a code framed for submission to the third class cities and boroughs, accompanied by a recommendation for adoption. It is the aim of the Department, as well as the Committee, to induce every third class city and borough in the State to adopt and enforce as nearly a uniform building code as possible. It is believed that the Code now contemplated will accomplish this purpose if adopted by all cities and boroughs below the second class, with only such variations and modifications as are rendered necessary by existing local conditions.

The Department originally contemplated drafting a code to be enforced under the supervision of the Department of Labor and Industry, but it has now concluded that a better element of success in securing safe buildings presents itself if municipalities will agree to the plan herein outlined.

The revised Industrial Lighting Code of the Department of Labor and Industry of Pennsylvania is now ready for distribution.

The revised Code was adopted May 10, 1923, and is now effective in all of Pennsylvania's industrial establishments. It contains rules on Glare-Shading of Lamps, Distribution of Light, Emergency Lighting, Intensity of Illumination and Dust and Gas Accumulations. The Intensity of Illumination rule contains two tables for use in determining the illumination necessary in various types of industry.

Those interested in this code may obtain copies of it by writing Mr. Cyril Ainsworth, Acting Secretary of the Industrial Board, Keystone Building, Harrisburg, Pennsylvania.

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**Garages (3)**, Sixty-fourth and Glenmore avenue, Philadelphia, \$14,800. Architect, private plans. Owner, Charles H. Adams, 2205 Felton street, Philadelphia. Brick, 1 story, 56x19 feet, 17x120 feet, one story, 20x150 feet, and one story, 120x17 feet, slag roof, cement floors. Owner will build.

**Dye House and Bridge**, Marshall, between Oakdale and Howell streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Hardwick & Magee Co., 1220 Market street, Philadelphia. Brick, reinforced concrete, cut stone, steel, 1 story, 226x50 feet, slag roof, cement floors, hollow tile, safety treads, waterproofing, metal lath, rolled steel sash, fire doors, iron work and stairs, cork insulation. Architect taking bids due September 25th, 10 A. M.

**Factory (alts. and add.)**, 2125 East Dakota street, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owner, Morris Starrels, on premises. Brick, 2 stories, 18x89 feet (plumbing, heating and electric reserved), slag roof, pine floors, rolled steel sash, iron work. Architect taking bids due September 20th.

**Supplies**, Philadelphia. Owner, Purchasing Agent, 312 City Hall, Thomas F. Armstrong. Owner taking bids September 26th, 11 T. M. Lumber, boiler tiles, brass globe valves, gate valves, etc., Portland cement, paper and lead cable.

**Sales and Service Station**, Broad and Belfield avenue, Philadelphia. Architect, Philip S. Tyre, 1505 Arch street, Philadelphia. Owners, Henry & Gunkle, 4634 North Broad street, Philadelphia. Brick, 1 story, slag roof, cement floors, electric light. Plans in progress.

**Building (alts. and add.)**, Manheim, Philadelphia. Architect, A. L. Connaroe, 225 South Sydenham street, Philadelphia. Owners, Germantown Cricket Club, Manheim and Morris street, Philadelphia. General alterations, electric light, tile and marble work, hardwood floors, changing partitions, plumbing. Plans in progress.

**Garage**, 7151 Germantown avenue, Philadelphia. Architect, G. S. Idell, 1705 Chestnut street, Philadelphia. Owner, Robert J. Barr, 7151 Germantown avenue, Philadelphia.

Brick, 1 and 2 stories, 16-car capacity. Plans in progress. Ready for bids in one week.

**Private Hospital Building**, location withheld. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, steel, concrete, 3 stories. Too early for details.

**Industrial Alcohol and Denaturing Plant**, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, steel, 2 stories. Too early for details.

**Store and Apartment (alts.)**, Garage, Southwest Corner Fiftieth and Haverford avenue. Architect, Charles F. Schaef, 2203 South Twenty-fourth street, Philadelphia. Owner, A. S. Rathmild, on premises. Brick, 1 story, 20x32 feet, hot water heating extension, electric light extension, slag roof, cement floors, general interior alterations. Architect ready for bids.

**Library (alts. and add.)**, Rittenhouse street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia City Institute, Eighteenth and Chestnut streets, Philadelphia. General alterations and additions. Architect will be ready for bids in a few days.

**Store Building (alts. and add.)**, 5615 Germantown avenue, Philadelphia. Architect, Addison H. Savery, 1309 Locust street, Philadelphia. Owner, C. A. Rowell, on premises. Brick, 3 stories, 35x54 feet. Plans completed. Architect and owner ready for bids.

**Hospital Building**, Roosevelt Boulevard and Rhawn street, Philadelphia, \$500,000. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Pennsylvania Mystic Shrine, W. Freeland Kendricks, 1337 Spring Garden street, Philadelphia. Brick and stone and steel, 2 stories. Plans in progress.

**Hospital (add.)**, Twentieth and Susquehanna avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Women's Homeopathic Hospital, Miss L. Carson, superintendent, on premises. Brick, 3 stories, 40x115 feet. Plans in progress. Architect will be ready for bids in one month.

**Residences (4)**, South side Foulkrod, East of Large street, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Own-

ers, W. M. France Son, Inc., 1511 Oxford Pike, Pa. Brick, 2 stories, (2) 18x30 feet, (1) 16x42 feet, (1) 16x40 feet, size of lot 218x95 feet, hot water heat, electric light, slag roof, hardwood floors, tile work. Owners will build.

**Store and Apartment (alts.)**, 1529 and 1533 Foulkrod street, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, W. M. France Son, Inc., 1511 Oxford Pike, Philadelphia. Underpinning, general interior alterations, electric lighting, new partitions, composition floors, tile work, cement work, plumbing, gas ranges, kitchen equipment. Owners will build.

**Garage**, 763 Brookland avenue, Philadelphia. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, Grant J. Bowers, Forty-fourth and Lancaster avenue, Philadelphia. Brick, 1 story, 22x27 feet, slag roof, electric light, cement floors, terra cotta coping. Owner will build and is taking sub-bids.

**Store and Office (alts. and add.)**, West side Paul, South of Meadow street, \$10,000. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owners, James A. Cummings & Co., 4653 Frankford avenue, Philadelphia. Brick, 2 stories, 12x34 feet, general alterations. Architect taking sub-bids.

**Church, Sunday School and Parsonage**, Oxford avenue, Dyer and Akron streets. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Frankford Avenue Methodist Episcopal Church, care of G. W. Shutz, 1618 Foulkrod street. Stone, cut stone, cast stone, concrete, 1 and 3 stories, 76x62 feet, Sunday School 63x68 feet, parsonage 56x38 feet, slate roof, cement, maple and pine floors, hollow tile, metal ceilings, waterproofing, iron work, rolled steel sash, tile work, metal lath, electric light, steam heat, caulking. Architect taking bids due September 27th.

**Store and Pool Room (add.)**, Southeast Corner Twelfth and Cambria avenue, Philadelphia. Architect, W. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Charles Reichart, on premises. Brick, 1 story and basement, 26x22 feet, slag roof, mineral and pine floors, electric light, tile work, painting, plumbing, plate glass, Kawneer bulks, plate glass, cement pavement, 85 feet, 63 feet, 12 feet wide. Owner taking bids.

**Alterations and Additions**, 3162-64 Kensington avenue, Philadelphia. Architect, Edward Schoeppe, 16 South Fifteenth street, Philadelphia. Owner, William Horner, Jr., on premises. Brick, cut stone, 2 stories, 35x23 feet (plumbing, heating, electric reserved), slag roof, maple, composition, cement and oak floors, metal lath, tile, marble and terrazzo work, galvanized iron skylights, metal ceilings, terra cotta. Architect taking bids due September 20th.

**Club House (alts. and add.)**, 1226 South Broad street, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owners, Circola Dante Alighieri, O. Monti-

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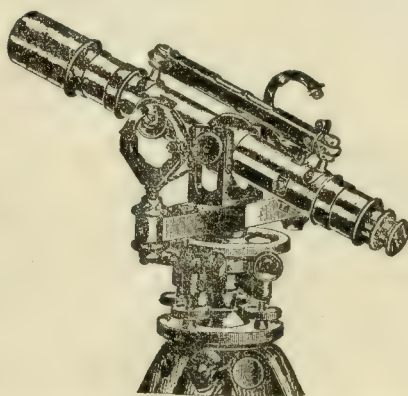
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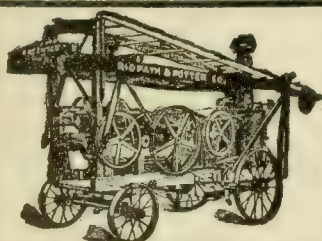
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celli, president, 1226 South Broad. Brick, stone and steel, 1 and 2 stories, 8 feet 9 inches x 108 feet, slag roof, electric light. Owners taking bids due as soon as possible.

**Repairs to Roof,** Post Office and Court House, Ninth and Chestnut, Philadelphia. Architect, James A. Wetmore, Washington, D. C. Owners, Treasury Department, I. S. Gova, Washington, D. C. Dormers on main roof, repairs present roof, new copper roofing, sheet metal work, lead gutters, cast iron skylights repairs, painting. Owners taking bids due October 1st.

**Boosting Station,** Germantown avenue and Grovers Lane, Chestnut Hill, Pa. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Water, Room 216, City Hall. Stone, cut stone, 1½ stories, 28x22 feet (plumbing, heating, electric, cement floors reserved), slate roof, metal lath, hollow metal sash, bond, iron work. Owners taking bids due September 25th.

**Oil Burning Equipment,** Twenty-first and Oregon avenue, Philadelphia. Architect, private plans. Owners, Philadelphia Q. M. Interm. Depot, Twenty-first and Oregon avenue, Philadelphia. Replacing of present coal burning equipment with oil burning equipment under 3 boilers in center heating system. Plans and specifications may be secured at this depot upon deposit of \$10.00. Owners taking bids due September 26th, 10 A. M. (Standard Time).

**Residence (alts.),** 2010 North Broad street, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, J. F. McGinty, on premises. General alterations to 4-story building, steam heat, electric light, tile work, hardwood floors, closet beds, built-in kitchens, fire tower, plate glass, copper bulks, structural steel. Architect and owner taking bids.

**Store and Apartment (alts. and add.),** Thirty-sixth and Woodland avenue, Philadelphia. Architects, R. R. Weely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, Charles Musi, care of architect. Brick, 3 stories, 16x20 feet, hot water heat, electric light, slag roof, pine and composition floors. Architect taking bids due September 21st.

**Strengthening Floors,** Southeast Corner Third and Market streets, Philadelphia. Architect, Francis Canavan, 7032 Greenway avenue, Philadelphia. Owner, Walter Pollock, 18 South Seventh street, Philadelphia. Steel and underpinning. Owner taking bids due September 20th.

**Sherwood Playground,** Fifty-sixth and Webster streets, Philadelphia. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, City of Philadelphia, Bureau of Recreation, Room 595, City Hall. Demolition,

excavating, surfacing and cinders, concrete and asphalt foundations, water supply, stone steps and walls, brick. Lowest bid submitted by George F. Dobbins, 1020 South Forty-seventh street, Philadelphia, \$8,900.

**Loading Platform,** Green Street Pier, Philadelphia. Architect, private plans. Owners, Bureau of Highways, City Hall. Lowest bid submitted by Harry Eyre, 1212 North Delaware avenue, Philadelphia, \$144,485.

**Residences (34),** Fifty-sixth and Arlington streets, Philadelphia, \$138,000. Architect, private plans. Owners, R. H. Pugh, Ridge and Girard avenues, Philadelphia. Brick, 2 stories, (2) 16x40 feet and (32) 16x30 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (21),** 6801-41 North Twentieth street, Philadelphia, \$85,000. Architect, private plans. Owner, Lewis W. Goodman, Drexel Hill, Pa. Brick, 2 stories, 15x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garage,** West side Forty-second street, South of Regent street, Philadelphia, \$35,000. Architect, private plans. Owner, Charles Schnitzer, 4502 York road, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Owner will build.

**Residences (9) and Store,** Penn and Magnolia streets, \$41,500. Architect, private plans. Owner, Frank Kiely, 5232 North Tenth street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet and 16x50 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**Ice House (alts.),** Northwest Corner Glenwood and Montgomery avenues, \$15,000. Architect, C. Leslie Weir, 41 East Forty-second street, New York. Owners, American Ice Co., City Center Building, Philadelphia. General alterations. Owners will build.

**Residence,** West side Anderson street, North of Phil-Elena street, \$12,000. Architect, private plans. Owners, Mauran, Dolman & Co., 105 Liberty Building, Philadelphia. Stone, 2 stories, 44x32½ feet, slate roof, hardwood and pine floors, hot water heat, electric lighting, tile work. Owner will build.

**Residence,** 2010 Haines street, Philadelphia, \$7,500. Architect, private plans. Owner, William Morrison, Limekiln Pike and Haines street, Philadelphia. Brick, 2 stories, 18x27 feet, 15x14 feet, steam heating, electric lighting, tile work. Owner will build.

**Residences (2),** West side Bingham street, South of Shelmire, \$5,000 each. Architect, private plans. Owner, John M. Hoepfl, 2016 North Fifth street, Philadelphia. Brick, 2 stories, 16x54 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (6),** South side Kingsley street,

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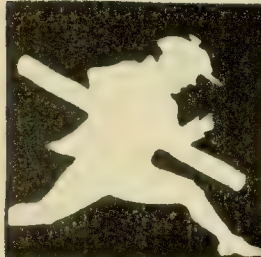
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East of Lauriston street, \$6,000 each. Architect, private plans. Owners, Manayunk Coal & Lime Co., Main and Umbria streets, Philadelphia. Brick, 2 stories, 20x33 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (10)**, 4644-62 Oakland street, Philadelphia, \$5,000 each. Architect, private plans. Owner, W. Robinson, 7319 Rising Sun avenue, Philadelphia. Brick, 2 stories, 19x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence**, East side Dorcas street, South of Shelmire street, \$4,000. Architect, private plans. Owner, Ernest Kubio, 7415 Dorcas street, Philadelphia. Frame, 2 stories, 16x34 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Greenhouse**, North side Cottman street, West of Roosevelt Boulevard, \$3,000. Architect, private plans. Owner, John G. Aschman, 1010 West Ontario street, Philadelphia. Iron and glass, 1 story, 65x20 feet, 25x125 feet. Owner will build.

**Garage**, 2914 North Croskey street, Philadelphia, \$3,000. Architect, private plans. Owner, Frank Parkhill, 2921 North Twenty-fourth street, Philadelphia. Brick, 1 story, 26x44 feet, slag roof, cement floors. Owner will build.

**Store and Residence (alts. and add.)**, 16 North Fifty-second street, \$3,000. Architect, private plans. Owner, Morris Goodstein, 1702 Point Breeze avenue, Philadelphia. Brick, third story add., 16x28 feet, 12x36 feet, general alterations. Owner will build.

**Residences (3) (add.)**, 924-26 and 32 Daly street, \$3,000 total. Architect, private plans. Owner, Rose Rodia, 921 Daly street, Philadelphia. Brick, 2 stories, 11x12 feet. Owner will build.

**Moylan Park**, Twenty-fifth and Diamond streets, Philadelphia. Improvement by planting. **Kenderton Park**, Twentieth and Ontario streets, Philadelphia. Improvement by planting. 3—**Etting Square**, Marston, Etting, Willard and Madison streets, Thirty-eighth Ward. Improvement by grading, installing drainage and water supply, treating soil, street footway paving, constructing and placing of park benches, supplying and installing bubbler drinking fountain, sodding, seeding and planting. 4—**Improving Plot**, Loney street, "C" street, Oxford avenue, property lines, Thirty-fifth Ward. Grading, supplying and treating of clean earth fill, constructing walks, installing water supply and drainage, constructing and placing park benches, constructing concrete fence posts, supplying, placing and painting galvanized iron pipe rails, supplying and installing bubbler drinking fountain, sodding, seeding and planting. 5—**Improvements to Juniata Park**, 33rd Ward. Installing in place new tables and benches complete. 6—**Improving Wissinoming Park**, in Forty-first Ward. Constructing curb and street footway paving on Comly street and Charles street. Plans and specifications for Items 3, 4, 5 and 6 may be obtained at Room 117, City Hall, on deposit of \$5.00 each. For further information inquire Room 117. Owners, Department of Public Works, Bureau of City Property, 216 City Hall, Philadelphia.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residence and Store (add.)**, 1712 Walnut street, Philadelphia, \$2,500. Architect, private plans. Owner, M. Seibel, on premises. Brick, 1 story add., 20x50 feet, general alterations. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Agency Building and Garage**, Northeast Corner Twentieth and Venango streets, Philadelphia. Architect, Louis L. Tieman, 693 Washington street, New York City. Owners, Fleischman Co., 701 Washington street, New York City. Reinforced concrete, brick, artificial stone, steel, 2 and 1 stories, 150x90 feet, steam heat, electric lighting, metal lath, tile and marble work, rolled steel sash, galvanized iron skylights, fire and kalamein doors, bond, iron work, elevators, plumbing, waterproofing, slag and asphalt roof, concrete, granolithic and maple floors. Contract awarded B. A.

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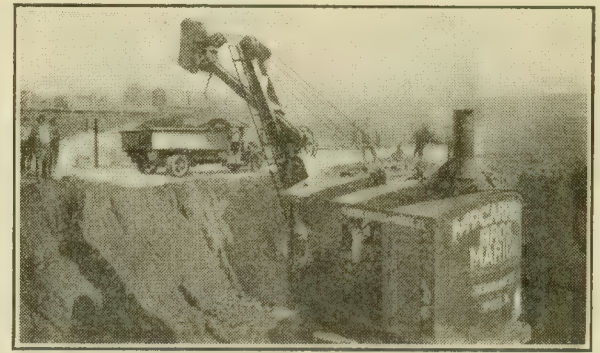
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**Garage**, Broad street, North of Sixty-fifth avenue, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Brick, stone, cut stone, 1 story, 60x146 feet, Barrett roof, cement and maple floors, hollow tile, metal lath, metal ceiling, iron work and ladders, fire doors, rolled steel sash and skylights, electric light, steam heat. Contract awarded J. L. Fawley Co., 1615 Spruce street, Philadelphia.

**Store (alts.)**, 5620 Germantown avenue, Philadelphia, \$5,000. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street,



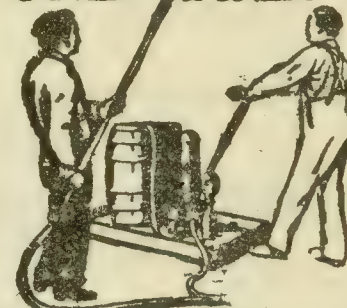
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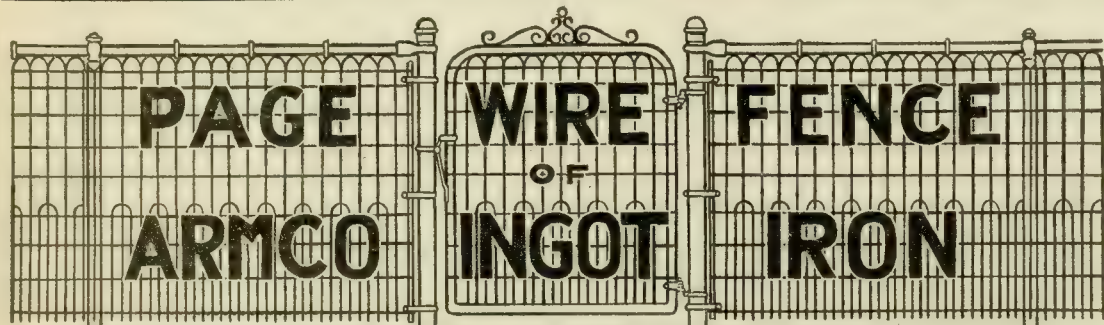
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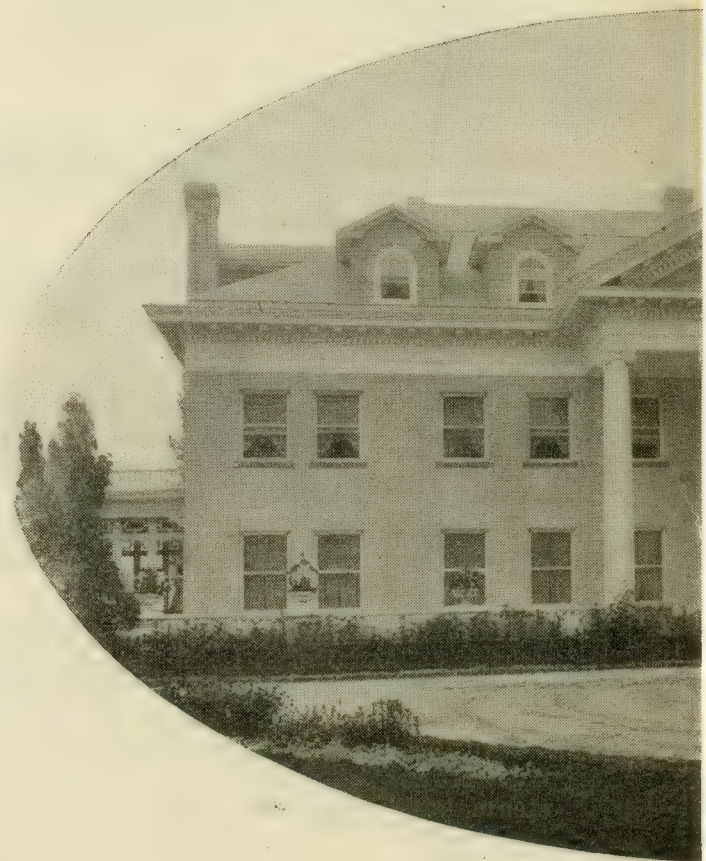
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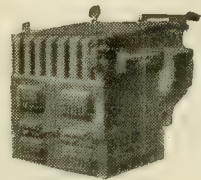
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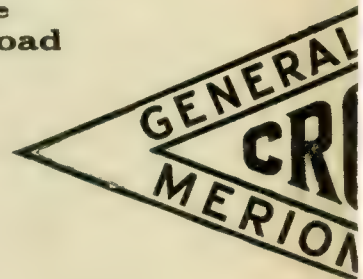
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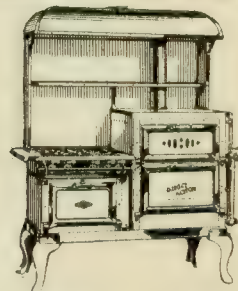
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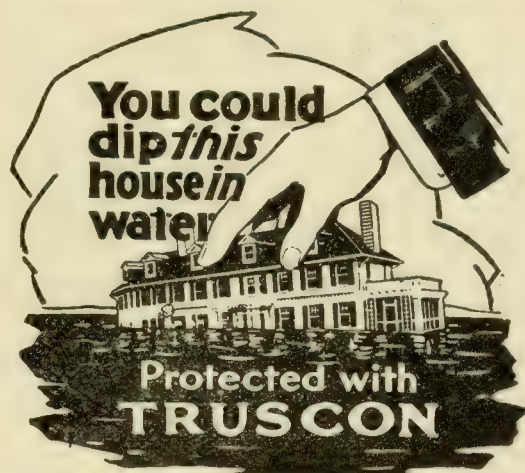
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Philadelphia. Owners, Messrs. Sacks Brothers, on premises. Brick, cut stone, cement work, bond, patching old floors, metal lath, plastering, marble and tile work, plumbing, hardware, new tin roof, painting and glazing (bulk windows, marble and terrazzo work, iron work separate bids). Contract awarded to F. E. Wallace, 1220 Chancellor street.

**Store and (2) Family Dwellings**, 4110 Lancaster avenue, Philadelphia. Architect, L. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Morris Goldberg, on premises. Brick, 3 stories, 89x18 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, marble work, hollow metal skylights, bond, iron work, metal ceilings. Contract awarded Max Sklar, 2421 South Sixtieth street, Philadelphia.

**Factory**, Second and Erie avenue, Philadelphia. Architect, private plans. Owners, Certainteed Roofing Products Co., on premises. Brick, steel, 1 story, 205x28 feet, 22x40 feet, Certainteed roof, concrete floors, rolled steel sash, bond, roof ventilators, ornamental iron work. Contract awarded John R. Wiggins, Eighteenth and Cherry streets, Philadelphia.

**Club House**, 3706 Locust street, Philadelphia, \$45,000. Engineer, Thomas Byrd Epps, 101 Tremont street, Boston, Mass. Owners, Kappa Sigma Fraternity, care of Wesley Leshner Blithe, 608 Chestnut street, Philadelphia. Brick, stone and steel, 3½ stories, 57x38 feet, hot water heating, metal lath, tile and marble work, ornamental iron work, slate roof, oak and yellow pine floors. Con-

tract awarded F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Building (alts. and add.)**, 1853 Bridge street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Chevra Vikur Chorlon, care of architect. Brick, 1 story, 12x40 feet, slag roof, maple and pine floors, hot water heat, electric light. Contract awarded Max Siegel, 1837 North Franklin street, Philadelphia.

**Garage**, 32-34 North Allison street, Philadelphia. Architects, R. R. Neely and E. William Martion, Philadelphia. Owner, W. C. Ferry, Highland Park, Delaware County, Pa. Brick, 1 story, 50x100 feet, steam heat, electric, slag roof, cement floors, hollow metal sash and skylights. Contract awarded Felix Claro, 5439 Webster street, Philadelphia.

**Residences (4)**, (2) 4656-58 North Fifteenth street, and (2) 4657-59 North Sydenham street, Philadelphia, \$24,000. Architect, private plans. Owners, Sunday & Kosempel, 1722 Wingochocking street, Philadelphia. Brick, 2 stories, (2) 17x44 feet, 10x15 feet, and (2) 15x37 feet and 10x15 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Alterations and Additions**, 330 South Nineteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Judge Norris N. Barrett, on premises. Hot water heat, electric light, tile and marble work, painting and glazing, plastering, carpentry and mill work. Contract awarded Kier Const. Co., 1612 Locust street, Philadelphia.

**Residences (40)**, Fifty-fifth and Pentridge streets, Philadelphia, \$178,500. Architect, private plans. Owner, Thomas P. Lee, 5629 Cherry street, Philadelphia. Brick, 2 stories, (16) 16x27 feet, 12x9 feet, (23) 15x28 feet, 12x10 feet, and (1) 15x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to R. D. & J. M. Wilson, 1530 South Fifty-seventh street, Philadelphia.

**Apartment and Store (add. and alts.)**, Southwest Corner Fifty-second and Parkside, \$15,000. Architect, private plans. Owner, Charles L. Egelston, 614 Wesley Building, Philadelphia. Brick, 3 stories, 15x32x36 feet, slag roof, hardwood and pine floors, electric lighting, general alterations. Contract awarded to D. Goldstein, 1538 South Sixth street, Philadelphia.

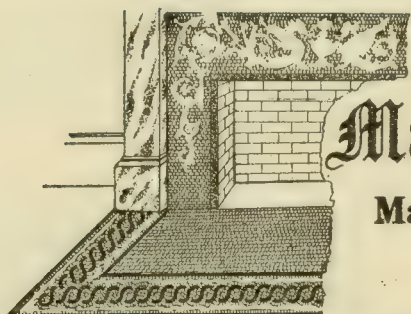
**Store**, Southwest Corner Second and Spring Garden streets, Philadelphia, \$19,000. Architect, private plans. Owner, A. Zeff, 540 North Second street, Philadelphia. Brick, 2 stories, 11x15 feet 5 inches, hot water heat, electric light. Contract awarded to J. Getzik, 531 South street, Philadelphia.

**Garage and Garage (add.)**, Stenton avenue and Haines street, \$19,000. Architect, private plans. Owner, Charles Gruber, on premises. Brick, 1 story, 41x140 feet, garage add., 1 story, 40½x50 feet, slag roof, cement floors, electric lighting. Contract awarded to William J. Cowell, 5712 Crittenden street, Philadelphia.

**Garage**, Northeast Corner Fifty-sixth and Sansom streets, Philadelphia, \$30,000. Architect, private plans. Owners, Wagner & Karpior, Fifty-sixth and Sansom streets, Philadelphia. Brick, 2 stories, 93x105 feet, slag roof, steel sash, cement floors, steam heating, electric lighting. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

**Residence and Store**, 415 South street, Philadelphia, \$21,000. Architect, private plans. Owner, H. Klinghofer, 417 South street, Philadelphia. Brick, 3 stories, 20x72 feet, 35x20 feet, slag roof, oak and yellow pine floors, electric work, bulk windows, tile work. Contract awarded to B. Bornstein, 1319 Wingochocking street.

**Store and Office (alts.)**, 1708-14 Chestnut street, \$15,000. Architect, private plans. Owner, Theo. Presser, 1713 Sansom street, Philadelphia. General alterations, carpentry, mill



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work, metal lath, plastering. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Store Building (heating)**, 1811-13 Spring Garden street, \$8,400. Architect, private plans. Owners, D. F. McCallinter & Son, 1811 Spring Garden street. Heating. Contract awarded to Bowers Brothers Co., 2015 Sansom street, Philadelphia.

**Residence**, 6036 Wissahickon avenue, Philadelphia, \$5,000. Architect, private plans. Owner, John V. Pagum, care of builder. Brick, 2 stories, 16x56 feet 6 inches, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Contract awarded to John Roman, 414 East Brighthurst street, Philadelphia.

**Residence and Store (alts. and add.)**, 1206 North Fourth street, \$5,100. Architect, private plans. Owners, Frank Piefer, on premises. Brick, 1 story add., 6x11 feet, and third story add., 12x12 feet, general alterations. Contract awarded to Frank A. Stoll, 170 Master street, Philadelphia.

**Building (repairs)**, 152 West Lehigh avenue, Philadelphia, \$4,250. Architect, private plans. Owners, The Lighthouse Association, on premises. Repairing fire damage. Contract awarded to John E. Walt, 204 East Willow Grove avenue.

**Residence**, East side Torresdale avenue, North of Ashburner street, \$7,500. Architect, private plans. Owner, Frank Checchia, Torresdale avenue and Ashburner street. Brick, 2 stories, 16x51 feet, hot water heat, electric light. Contract awarded to Daniel J. Gereke, 6938 Tulip street, Philadelphia.

**Residences (4)**, North side Newton avenue, East of Passmore street, \$5,000 each. Architect, private plans. Owner, George J. Hellerman, Harrisburg, Pa. Frame, 2 stories, 21x30 feet, electric lighting, hot water heating, hardwood and pine floors. Contract awarded to Harold Stout, Cheltenham, Pa.

**Store and Office (alts. and add.)**, 1826 Arch street, Philadelphia, \$3,500. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owners, Fred C. Meyer & Co., 409 Wood street, Philadelphia. Brick, 1 story, 7½x13 feet, 6x14 feet, slag roof, pine floors. Contract awarded to H. E. Grau Co. 1707 Sansom street, Philadelphia.

**Store and Office (2)**, 33 and 35 South Nineteenth street, Philadelphia, \$7,000. Architect, private plans. Owner, John E. McCulley, Republic Trust Building, Philadelphia. Brick, 1 story, 4x41 feet, 5x31 feet and 9x17 feet, slag roof, pine floors. Contract awarded to Joseph Cichiny, 2135 North Howard street, Philadelphia.

**Residence (alts. and add.)**, 432 East Sedgwick street, 2,600. Owner, George Mills, on premises. Brick, 1 story add., 12x5 feet, general alterations. Contract awarded to E. Allen Reeves, Abington, Pa.

**Residence (add.)**, 110 North Woodstock street, Philadelphia, \$4,000. Architect, Hor-

ace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, St. Clement's Church, Twentieth and Cherry streets, Philadelphia. Brick, fourth story add., 16x30 feet, mansard roof, hot water heat, electric light, oak floors. Contract awarded to J. B. R. Miller, 1802 Chestnut street, Philadelphia.

**Store and Office (alts.)**, 1214 Walnut street, Philadelphia, \$5,000. Owner, William Ludascher, on premises. General alterations. Contract awarded to Henry G. Evans, 1417 North Warnock street, Philadelphia.

**Store and Residence (alts.)**, 712 Poplar street, Philadelphia, \$3,000. Architect, private plans. Owner, S. Shechtman, on premises. General alterations. Contract awarded to Shechtman Brothers, 1540 North Sixth street, Philadelphia.

**Garage**, Southwest Corner Sixth and Lycoming streets, Philadelphia, \$2,600. Architect, private plans. Owner, John McCriden, 4210 North Sixth street, Philadelphia. Brick, 1 story, 34x19 feet, slag roof, cement floors. Contract awarded to J. Fleischer & Sons, 739 Roosevelt Boulevard.

**Kiln**, South side Paschall avenue, West of Fifty-sixth street, Philadelphia, \$4,000. Architect, private plans. Owners, Philadelphia Screen Mfg. Co., Fifty-sixth and Woodland avenue, Philadelphia. Brick, 1 story, 20x20 feet. Contract awarded to J. H. Danehle, 2835 Montgomery avenue.

**Store and Residence**, Northeast Corner Blavis and Clarissa streets, \$3,800. Architect, private plans. Owner, Pauline Siemonski, 1634 Ruffner street, Philadelphia. Brick, 2 stories, 29x18 feet, 12x12 feet, slag roof, hot air heat, electric light, pine floors. Contract awarded to A. Siemonski, 1634 Ruffner street, Philadelphia.

**Garage**, 843 Kimball street, Philadelphia, \$3,500. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, A. Espoti, 1011 South Ninth street, Philadelphia. Brick, 2 stories, 16x48x24 feet, slag roof, cement floors. Contract awarded to A. Espoti, 1011 South Ninth street, Philadelphia.

**Store Building (alts. and add.)**, 2565 East Madison street, \$3,400. Architect, private plans. Owner, Frank Boshnak, 2601 East Madison street, Philadelphia. Brick, 2 stories, add., 9x10 feet, general alterations. Also garage, 1 story, 8x12 feet, \$400. Contract awarded to Larry Costello, 1915 Pierce street, Philadelphia.

**Storage Building**, Unity and Oakland streets, Philadelphia, \$2,200. Architect, private plans. Owners, S. S. White Dental Mfg. Co., on premises. Iron, 1 story, 28x60 feet,

ceement floors. Contract awarded to Truscon Steel Co., 1432 South Penn Square, Philadelphia.

**Residence and Store (alts.)**, Northeast Corner Frankford and Stella avenues, \$3,500. Architect, private plans. Owner, Frank A. Flutka, 2301 Frankford avenue, Philadelphia. General alterations. Contract awarded to James J. Cowen, 2571 Coral street, Philadelphia.

**Apartment (add.)**, 4435 Baltimore avenue, Philadelphia, \$3,000. Architect, private plans. Owner, B. Miller, 604-06 South Second street, Philadelphia. Brick, fourth story add., 28x15 feet. Contract awarded to M. Yacknitz, 1202 North Seventh street, Philadelphia.

**Residence (alts. and add.)**, 230 West Willow Grove avenue, \$3,000. Architect, private plans. Owner, A. E. Schofield, on premises. Brick, 1 story, 7x22 feet, general alterations. Contract awarded to Charles J. W. Platt, 625 North Sixth street, Philadelphia.

**Store and Residence (add.)**, 2661 Orthodox street, Philadelphia, \$2,800. Architect, private plans. Owner, Frank Herro, 2661 Orthodox street, Philadelphia. Brick, 1 story add., 15x7 feet. Contract awarded to Stefan Pietrykowski, 3074 Aramingo avenue.

## Pennsylvania

### Construction News

**Bridges (8)**, York, Pa. Owners, County of York, Office of County Controller, York, Pa. Reinforced concrete bridge (5), steel truss bridges (2), and repairs to concrete arch bridge. Owners taking bids due September 24th until 10 A. M. Certified check for 10 per cent. of bid must accompany each bid.

**Road Work**, Pennsylvania. Low bidders on road work opened September 11, 1923. Crawford County, R-83, A-1558, Conneaut Lake Borough, Sadsbury, Summit and Pine Townships, 29,053 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. H. E. Bunce, Linesville, Pa., \$252,236.39.

**Residence and Garage**, (Blancoyd and Grey-ston road, Merion, Pa. Architect, Ralph E. White, 908 Pennsylvania Building, Philadelphia. Owners, Job No. 3759. Stone, brick, cut stone, stucco, 2½ stories, 51x31 feet, garage, 16x26 feet, tile roof, oak and pine floors, tile work, plumbing, iron work. Architect taking bids due September 24th.

**Sales and Service Building**, Paoli, Pa. Architect, Philip S. Tyre, 1505 Arch street, Phil-

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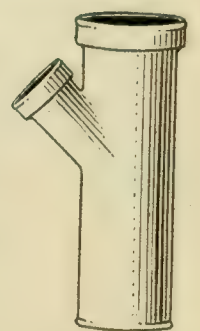
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adelphia. Owner, Walter T. Matthews, care of architect. Brick, 2 stories. Plans in progress.

**Residence**, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, N. T. Wellman, Ridley Park, Pa. Frame, 2 stories, 34x23 feet, wing 18x16 feet, hot water or vapor heat, electric light, 2 baths, hardwood floors, shingle roof. Plans in progress. Architects will be ready for bids in two weeks.

**Sales and Service Building (alts. and add.)**, Pottsville, Pa. Architect, H. Child Hodgins, 130 South Fifteenth street, Philadelphia. Owner, W. Shugar, 815 West Market street, Pottsville, Pa. Brick and steel, 1 story, 30x50 feet. Plans in progress.

**Theatre Building (alts.)**, Pottsville, Pa. Architect, M. Childs Hodgins, 130 South Fifteenth street, Philadelphia. Owners, American Theatre, care of W. Shugar, 815 West Market street, Pottsville, Pa. Electric light, marble work, carpentry and plastering, painting. Architect is taking sub-bids.

**Apartment House (alts.)**, Third, Market, Laurel and Minersville streets, Pottsville, Pa. Architect, W. Childs Hodgins, 130 South Fifteenth street, Philadelphia. Owner, W. Shugar, 815 West Market street, Pottsville, Pa. Brick, stone, frame and stucco, 3 stories and basement, 35x70 feet, general alterations. Plans in progress.

**Residence and Garage**, Elkins Park, Pa. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Mr. and Mrs. Morris Kauffman, care of architect. Cut stone, stone and steel, 2½ stories, 74x50 feet, garage, 25x25 feet, hot water heat, electric light, metal lath, tile and marble work, slate roof, linoleum, oak, pine and cement floors, metal weather strips, iron work. Architect taking bids due September 25th.

**Residence**, Elkins Park, Pa. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owner, Mr. and Mrs. Edwin H. Silverman, care of architect. Brick, stucco, cut stone, 2½ stories, 52x42 feet, hot water heat, electric light, tile and marble work, metal lath, iron work, shingle roof, linoleum,

oak, pine floors, linoleum, metal weather strip. Architect taking bids due September 25th.

**Residence and Garage**, Chest Mill Road, Wyncote, Pa. Architects, Zantinger, Borie & Medary, Otis Building, Philadelphia. Owner, B. Lippincott, care of architect. Brick and stucco, 2½ stories, 25x40 feet, shingle and canvas roof, oak and pine floors, tile work, electric light, hot water heat. Architect taking bids due September 20th, noon.

**Parsonage, Church and Sunday School**, Sunbury, Pa. Architect, W. H. Lee, 32 South Seventeenth street, Philadelphia. Owners, First Reformed Church, Sunbury, Pa. Brick, stone, 3 stories, 95x52 feet and 32x40 feet, slate roof, maple floors, concrete work, hot water heat, electric light, plumbing, tile work, rolled steel sash, structural steel, iron work. Architect taking bids.

**Sewerage System**, Berwick, Pa. Consulting engineer, Alexander Potter, 50 Church street, New York City. Owners, Borough of Berwick, Silas McHenry, Secretary of Council, Borough Hall, Berwick, Pa. Construction of 4,300 feet of combined sewers, averaging in size 22 inches to 48 inches. Owner taking bids due September 26th, 7 P. M. (Standard Time). Deposit, \$10.00, no refund. Every bid to be accompanied with certified check 5 per cent. of bid.

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa. Low bidders on road work opened September 11th, 1923:

Indiana County, Route 54, A-2157, Cherryhill and Rayne Townships, 18,421 feet. One course reinforced concrete. Burnside Const. Co., Burnside, Pa., \$209,449.

Somerset County, R-52, A-1361, Boswell Borough, 2,147 feet. One course reinforced concrete. C. J. Newman & Co., Boswell, Pa., \$23,010.30.

Berks County, R-160, Shoemakersville Borough and Perry Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Ambler-Davis Co., Harrison Building, Philadelphia, \$60,643.25.

Erie County, A-1467, Harbor Creek Township, 13,625 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Chas. H. Fry Const. Co., Erie, Pa., \$110,629.30.

Fayette County, R-117, Everson Borough, 1,603 feet. One course reinforced concrete. J. I. Dick, Scottdale, Pa., \$37,741.65.

Berks County, R-149, Wyomissing and West Reading Boroughs, 5,292 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Ambler-Davis Co., Harrison Building, Philadelphia, \$71,070.

Butler County, R-79, Butler, Connoquenessing and Franklin Townships, 27,040 feet. One course reinforced concrete. Burns Brothers, New Castle, Pa., \$309,120.86.

Lancaster County, R-138, Manheim Borough, 3,276 feet. One course reinforced concrete. Swanger-Fackler Const. Co., Inc., Lebanon, Pa., \$43,580.20.

Northampton County, A-2557, Northampton Borough, 3,327 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. General Paving Co., Allentown, Pa., \$42,352.15.

York County, A-2002, Shrewsbury Township and New Freedom Borough, 7,911 feet. Either bituminous surface course on concrete

foundation or one course reinforced concrete. W. C. Guncheon & Co., Harrisburg, Pa., \$57,602.30.

Armstrong County, R-69, South Buffalo Township, 11,524 feet. Resurfacing: One course reinforced concrete. F. S. Wilson, Kittanning, Pa., \$89,944.15.

Bradford County, R-212, Burlington and North Towanda Townships, 19,934 feet. One course reinforced concrete. A. W. Hinaman, Canton, Pa., \$267,087.05.

Fayette County, A-874, Fayette City Borough, Washington Township, 1,038 feet. One course reinforced concrete. Philip De Rienzo, Fayette City, Pa., \$15,054.90.

Delaware County, R-131, Middletown Township, 11,720 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Highway Const. Co., Land Title Building, Philadelphia, \$100,074.

Greene County, R-268, Jefferson Borough, 2,870 feet. One course reinforced concrete. Reed & Moore, Waynesburg, Pa., \$39,208.50.

Fayette County, R-116, Smithfield Borough and George Township, 5,396 feet. One course reinforced concrete. Ewing B. Swaney, Uniontown, Pa., \$84,129.52.

Westmoreland County, R-120, Irwin Borough, 3,304 feet. One course reinforced concrete. Horace De Angelis, Irwin, Pa., \$69,602.65.

## Pennsylvania Contracts Awarded

**Hotel and Store Building (alts. and add.)**, Lancaster, Pa., \$48,000. Architect, H. Y. Shaulb, Imperial Building, Lancaster, Pa. Owner, D. A. Skillas, Lancaster, Pa. Brick, cast stone and steel, 3 stories, 50x75 feet, slag roof, composition and hardwood floors, steam heat, electric light, metal lath. Contract awarded to L. W. Wohlsen, Breneman Building, Lancaster, Pa.

**Store and Apartment Building (alts. and add.)**, Lancaster, Pa., \$20,000. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Arthur C. Offner, Lancaster, Pa. General alterations and additions. Contract awarded to L. W. Wohlsen, Breneman Building, Lancaster, Pa.

**School**, Morrisville, Pa. Architect, P. L. Fowler, Fitzcharles Building, Trenton, N. J. Associate architect, T. B. Stockham, Morrisville, Pa. Owners, Morrisville School Board, Mr. Taylor, secretary, Morrisville, Pa. Brick, hollow tile and steel, 2 stories and basement, 45x170 feet, tile roof, yellow pine floors, hollow tile, safety treads, roof ventilators, metal ceilings, waterproofing and dampproofing (heating, electric work and plumbing reserved), metal lath, rolled steel sash, fire doors, bond. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J., \$80,046.

**Y. M. C. A.**, Norristown, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Y. M. C. A., H. Severn Regar, president, Norristown, Pa. Brick, reinforced concrete, 1 and 2 stories, 115x50 feet, metal lath (plumbing, heating and electric reserved), tile and marble work, rolled steel sash, copper skylights, hollow metal doors, bond, iron work, waterproofing, roof ventilators, hollow tile, cement, maple and compo-

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sition floors, Barrett's specification roof. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

**Bank and Office Building**, St. Clair, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, St. Clair State Bank, St. Clair, Pa. Reinforced concrete, cut stone, brick, granite, steel, 3 stories and basement, 43x106 feet, steam heat, electric light, metal lath, marble work, composition floors, hollow metal doors, bond, iron work, waterproofing. Contract awarded George Keefer, Mt. Carmel, Pa.

**Locker House**, Edge Hill, Pa. Architect, Philip S. Tyre, 1505 Arch street, Philadelphia. Owners, North Hills Country Club, Edge Hill, Pa. Brick, hollow tile and stucco and steel, 2 stories, 92x42 feet, 32x30 feet, Johns Mansville roof, cement floors, iron work, tile and marble work, metal lath. Contract awarded Roy Randall, Horsham, Pa.

**Bell Telephone (dd.)**, Sunbury, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, 2 stories, 27x52 feet, slag roof, cement floors, electric light, steam heat, tile and marble work, bond, iron work. Contract awarded to Broscious Lumber Co., Sunbury, Pa.

**School (shell of building)**, Dushore, Pa. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Basil's Roman Catholic Church, Rev. Michael F. Sweeney, Dushore, Pa. Stone, 2 stories, 62x119 feet, Carey and slate roof, rough plumbing. Contract awarded C. M. Thompson Co., Inc., Towanda, Pa.

**Residence**, Woodley Lane, Merion, Pa. Architect, J. W. Thompson, 702 South Sixtieth street, Philadelphia. Owner, Mrs. S. A. Donnelly, care of architect. Stone and stucco, 2½ stories, L shape, 39x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded Edward Harry Smith, Lansdowne, Pa.

**Welfare Building (2)**, Altoona, Pa. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel, concrete, 2 stories, 142x42 feet, steam heat, electric light, slag roof, concrete floors, iron work. Contract awarded Hughes Foulkrod Co., Commonwealth Building, Philadelphia.

**Residence**, Darby, Pa. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Concrete block, frame and stucco, 2½ stories, 20x34 feet, hot water heat, electric light, wood shingle roof, pine floors. Contract awarded D. D. Steel, Darby, Pa.

**Church**, Ardmore, Pa. Architect, B. R. Stevens, 1737 Filbert street, Philadelphia. Owners, First Baptist Church of Ardmore, Pa. Stone, cast stone, brick, 1 story, 37 feet 4 inches x 78 feet, 8 inches, steam heat, electric light, slate roof, cement floors, tile and marble work, bond. Contract awarded Thomas C. Trafford, 1619 Sansom street, Philadelphia.

**Bridge**, East of Chester Brook, Pa. Owners, Philadelphia & Reading Railway Co., Twelfth and Market streets, Philadelphia. Through plate type, solid concrete deck, replacing iron bow strings, wooden pavement. Contract awarded: Substructure, J. H. Wickersham, Lancaster, Pa. Superstructure, American Bridge Co., Widener Building, Philadelphia.

**Bridge**, near Downingtown, Pa. Engineer, Samuel Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railway Company, Twelfth and Market streets, Philadelphia. Steel, concrete, 40½ feet, two-track. Contract awarded John H. Wickersham, Lancaster, Pa.

## New Jersey Construction News

**Store (alts.)**, Kaighn avenue and Broadway, Camden, N. J. Architect, Gabriel A. Roth, 1629 Chestnut street, Philadelphia. Owner, Ramond Mark, on premises. General alterations. Plans in progress.

**Store and Apartment (alts.)**, Ocean City, N. J. Architect, J. W. Thompson, 702 South Sixtieth street, Philadelphia. Owner, J. Smith, 646 South Sixtieth street, Philadelphia. General alterations, 3 stories, 30x100 feet, hardwood floors, metal ceilings, patent bulks, iron stairs. Architect will take bids from local contractors in two weeks.

**New Industrial School**, Baltic and Indiana avenue, Atlantic City, N. J. Architect, B. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, H. A. Young, secretary, Atlantic City, N. J. Brick, 3 stories, 125x43 feet (plumbing, heating, electric reserved), slag roof, pine floors, safety treads, terra cotta, iron work, bond, rolled steel sash, copper skylights, tile work. Owners taking bids due September 20th.

## New Jersey Contracts Awarded

**Bank and Office Building**, Eighth and Asbury avenue, Ocean City, N. J. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, Ocean City Title & Trust Co., Ocean City, N. J. Reinforced concrete, limestone, brick, granite, fireproof, cut stone, 6 stories, 62x96 feet, slag roof, reinforced concrete floors, hollow tile, roof ventilators, waterproofing and dampproofing, iron stairs, tin clad and kalamein doors, rolled steel sash and skylights (tile, marble, elevators, electric, heating, plumbing and all interior finish reserved). Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

## Miscellaneous Construction News

**Hospital Building**, Maggie, West Virginia. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, Colored Insane Hospital, Maggie, W. Va. Brick and reinforced concrete. Owners taking bids due November 1st.

At the last meeting of the Executive Committee of the American Construction Council, President Franklin D. Roosevelt, through the Committee, announced the creation of additional executive positions to expedite the administration of the expanding activities of the Council. Mr. D. Knickerbacker Boyd, President of the Philadelphia Building Congress, was named Executive Vice-President of the Council and at the same time Dwight L. Hoopingarner, formerly Executive Manager of the Cleveland Building Trades Employers' Association, was appointed the Council's Executive Secretary. Joseph H. Alexander, Vice-President of the Cleveland Railway Company and John E. Lloyd, President of the Wm. M. Lloyd Company of Philadelphia, have accepted vice-presidencies

in the Council. The foregoing are in addition to the Council's previously existing officers.

Announcement of important new committees will be made shortly.

The efforts of the Council are being intensively directed first on several of the most urgent problems confronting the construction industry, such as promotion of and co-operation with local building congresses, a national survey of apprenticeship needs and conditions of labor supply, promotion of the stability of employment and reduction of unemployment, comprehensive steps toward the determination of the causes and the elimination of waste in all its phases throughout the industry, a general educational program as to the problems of the industry and its development, and the promotion of the concept of construction activities as a great American industry.

Activities being carried on in these fields by other agencies will receive proper recognition by the Council at all times, and co-operation with the appropriate existing agencies will be established.

The Council recently moved into new quarters in the National Association Building, 28 West 44th Street, New York City.

A guide book designed for the prospective small home owner was issued recently by the United States Government, the Department of Commerce announcing the publication of a handbook setting forth details which assert the steps necessary to acquiring such property.

This aid to home builders is a publication entitled, "How to Own Your Home." It carries a foreword by Herbert Hoover, Secretary of Commerce, and was compiled by John M. Gries and James S. Taylor, of the Division of Building and Housing, in answer to the request of a large number of national civic organizations that the subject should be authoritatively covered to encourage home owning in the interest of good citizenship. The booklet, planned to give simple, common-sense information to the person of moderate means who would possess a home, is the result of collaboration and approval by more than fifty civic bodies and experts interested in developing a sound social and economic system through the home.

In declaring that the public recognizes the advantage of owning their own homes and that business groups, especially, are viewing this proposition in a new light, Secretary Hoover said in the foreword:

"They see that taking a neighborly interest in developing sound financing and other machinery for the use of home seekers and insisting on the observance of honest, straight-forward business meth-



ods by those who deal with home seekers is not paternalism but good business and good citizenship. It is the 'square deal'—and it is not only right but essential that the cards should not be stacked against the home seeker."

Maintaining a high percentage of individual home owners is one of the searching tests that now challenge the people of the United States," Secretary Hoover asserted in urging "the own-your-home" idea. "The present large proportion of families that own their homes is both the foundation of a sound economic and social system and a guarantee that our society will continue to develop rationally as changing conditions demand."

"Buying or building a home requires the use of sound judgment in seeing that the personal needs of the family are best met with the funds available," Mr. Hoover pointed out in the foreword. "It involves not only the carrying on of transactions of financing and buying or building but it involves the proper determination of location with respect to school, to work, and to neighborhood."

Secretary Hoover stated that the development of the automobile has given "a great impulse to suburban life and an increasing possibility of home ownership."

"A family that owns its own home takes pride in it, maintains it better, gets more pleasure out of it, and has a more wholesome, healthful, and happier atmosphere in which to bring up children. The home owner has a constructive aim in life. He works harder outside his home, he spends his leisure hours more profitably, and he and his family live a finer life and enjoy more of the comforts and cultivating influences of our modern civilization. A husband and wife who own their own home are more apt to save. They have an interest in the advancement of a social system that permits the individual to store up the fruits of his labor. As direct taxpayers they take a more active part in local government. Above all, the love of home is one of the finest instincts and the greatest of inspirations of our people."

Statistics published in the book show the percentage of home owners in the United States, and the revelation made by them also prompted the Department of Commerce to publish such information for public use. In 1900, 461 of every 1,000 families in America owned their own homes, while in 1920 the percentage had dropped to 456 in each 1,000. Of the 48 States only 20 showed an increase, while the District of Columbia likewise gained.

The ten leading States in respect to home ownership in 1920 were, in order, North Dakota, Wisconsin, South Dakota, Idaho, Minnesota, Montana, Utah, Maine, New Mexico and Michigan.

One of the outstanding problems confronting the home seeker, the handbook points out, is that of financing the acquisition of property.

"The prospective home owner who uses his common sense in considering the real needs of his family and his ability to pay, and who checks his own judgment by consulting experienced persons, may go ahead with full confidence," it states. "He need not be frightened by the mistakes of heedless persons who have carried away by some novel feature and coaxed into a bad bargain, or who have tried to buy beyond their means. While some risks are involved, as is usually the case in obtaining anything worth while, the danger of failure is relatively small when weighed against the advantages of an owned home."

What ratio of income may be safely devoted to the process of acquiring a home is explained in this vein: "If a certain family pays one-sixth of its income for rent, it may be able to devote one-fourth or more to buying and maintaining a house, for the amount thus used may include both rent and savings. Rent, or payments on a home, may require anywhere from one-eighth to one-third of the family income, depending on the special circumstances in each case."

Tables dealing with the ratio of income to home investment are given. The tables do not attempt to set up arbitrary standards, although they are stated to be fairly typical and may be used as a basis from which to start figuring.

Under the heading of "The Range of Safe Expenditure," the handbook does not approve of any effort to buy a home beyond a definite ratio to family resources and income, and carefully elaborates these ratios of expenditure in accordance with income.

Particular stress is placed by the handbook on the agreements which should be definitely entered into with regard to financing, building, and purchasing. The points which should be clearly defined are emphasized.

While conceding that the great majority of individuals and companies with which the home seekers deal are honest and wish to do business honorably, the handbook insists that "no good business man should object to having his obligations, as he understands them, set down in writing and in accordance with legal procedure."

As for the financing of home building, the handbook gives sound information.

"Borrowing money to buy a home is no disgrace," it declares. "On the contrary, it is normal and in many ways desirable. Many families in meeting payments on a loan have learned the habit of saving, and have continued it as a step toward financial independence."

It is desirable, the book points out, for a family about to buy a home to possess a minimum of 20 per cent. of the value of the house in cash, even though arrangements are often made for a purchase with a lesser amount. The advantage of a larger cash payment is found in the fact that it helps to insure a loan at a low rate of interest and one that can be paid off comfortably.

In the selection of a home site, requirements are carefully discussed from the standpoint of family life, neighborhood, education, transportation to work and to shopping centers, low or high land values, protection offered to home by private restrictions, zoning, ordinances and city planning, and by fire departments and police. Character of the neighborhood, location with reference to schools and playgrounds for children, and general improvements of the lot, including planting and drainage, are points that are explained as important factors.

The problem of buying the property for the site too long before building in view of the conditions of public utility improvements, such as paving, sewerage, water supply, gas and electricity, possible assessments, the proportion of lot value to the total outlay and without making a proper search of the title, are also given attention in the handbook.

In conclusion the handbook comments

"It is hoped that prospective home owners may find whether they are on a right track by checking their plans with these suggestions and that the home so acquired will cause them no regrets."

"If they insist on good honest standards in the houses they build or buy they not only benefit their families and themselves but perform a broader service. They help raise the quality of homes in the United States and provide a sound basis for wider home ownership."

"How to Own Your Home," may be obtained for 5 cents from the Superintendent of Documents, Government Printing Office, Washington, D. C.

## CONCRETE FLOOR TREATMENTS

The efficiency of a concrete floor surface depends upon the workmanship in laying the wearing course and upon proper protection during its early hardening by a covering which will keep the floor damp for at least two weeks. Experience has demonstrated that a wearing course composed of portland cement and a suitable aggregate correctly proportioned, mixed and deposited and properly protected after finishing will produce a satisfactory wearing surface, free from dusting.

If a wearing surface crumbles or dusts under moderate traffic, the wearing qualities of the floor can often be improved by the application of some hardener or



treatment. Magnesium fluosilicate, sodium silicate, aluminum sulphate, zinc sulphate and various gums, soaps and paraffins are among the best known substances used to treat concrete floors.

#### *Magnesium Fluosilicate Treatment*

The magnesium fluosilicate treatment consists usually in one or more applications of a solution of the silicate. The solution for the first application consists of about one-half pound of the silicate dissolved in one gallon of water. For the second and subsequent applications the solution is made with about two pounds of the silicate to each gallon of water.

Any number of applications of the more concentrated solution may be given to the floor, depending on the condition of the floor and the apparent penetration obtained. In no case should one application follow in less than three-quarters of an hour after the preceding one. The surface treated should be kept wet with the solution for at least three minutes at each application so as to replace any of the solution absorbed at once by the concrete. The primary object of the manner of application is to secure as great a depth of penetration as possible.

#### *Sodium Silicate Treatment*

A 20 per cent. solution of sodium silicate containing a small addition of an organic acid is applied in two or more coats twenty-four hours apart. Ordinarily the sodium silicate requires considerable time to dry properly so that the floor can be used. The sodium silicate treatment is, of course, inexpensive.

Commercial sodium silicate varies in strength from 30 to a 40 per cent. solution. It is quite viscous and requires thinning with water before it will penetrate the floor. Ordinarily it will be found satisfactory to dilute each gallon of the silicate with three gallons of water. Each gallon of the resulting solution will cover about 200 square feet of floor surface one coat. The floor should be thoroughly cleaned of all grease, plaster, dirt, etc., and should be thoroughly dry before the first application of the silicate solution.

#### *Aluminum Sulphate Treatment*

The aluminum sulphate treatment consists in one or more applications of solutions of aluminum sulphate to the clean, dry surface. The solution is made up in a wooden barrel or stoneware vessel and the water should be acidulated with about 2 cc. of commercial sulphuric acid for each gallon of water. The sulphate does not readily dissolve and requires occasional stirring for a few days until the solution is complete. About  $2\frac{1}{2}$  pounds of the powdered sulphate will be required for each gallon of water and one gallon of the solution should cover about 100 square feet of floor surface. For the first treatment the solution may be

diluted with twice its volume of water. Twenty-four hours after this application the normal solution is used and twenty-four hours should elapse between additional applications of the solution.

#### *Zinc Sulphate Treatment*

This treatment consists in the application of about a 16 per cent. solution of zinc sulphate with about  $4\frac{1}{2}$  per cent. free sulphuric acid applied in two coats, the second coat being applied four hours after the first one. The surface should be scrubbed with hot water and mopped dry just before the application of the second coat. This treatment gives the floor a darker appearance than the original concrete.

There are a number of compounds of oils, gums, waxes, etc., which are sold as concrete floor hardeners. Pulverized iron mixed with sal ammoniac or some other oxidizing agent is also used both as an integral floor hardener and as a treatment for a concrete floor surface.

#### *Admixtures*

There are on the market a number of compounds which are widely recommended for inclusion in the body of the concrete. Instructions for the use of these compounds invariably call for many of the methods and practices which are known to be essential for successful concrete floors built without the inclusion of integral compounds. Poor workmanship or improper methods or materials cannot be compensated for by the admixture of any material other than those used in making good concrete.

Admixtures containing chemicals may interfere with the chemical action between the cement and water. Unquestionable evidence should, therefore, be had about the effect on the concrete of any proposed admixture before it is specified for use.

#### *Floor Paints*

Decorative floor paints or coatings may be had in considerable variety from responsible manufacturers. Almost without exception these paints require that the floor be thoroughly clean and dry when the paint is applied. A fairly wide range of colors is available and, while these paints wear off under foot traffic, they are, in general, as permanent and wear resistive as the paints in use on wood floors.—*Concrete Floors.*

## ARCHITECTURAL USES OF WALLPAPER

BY ESTELLE H. RIES

Whether the builder is planning the interior finish of a new house or considers the remodelling of an old one, the architectural uses of wallpaper present interesting possibilities for service.

It is no longer believed necessary or even desirable to have the walls throughout the house alike, even where there are

communicating rooms. While this gives a certain spaciousness and unity to the effect, it is primarily necessary for the wall treatment to conform to the purpose and exposure of the room for which it is intended.

A simple bedroom requires different wall treatment from a formal dining room in which a certain dignity and weight would be wanted. The north room requires warmer tones than does the sunny room on the south side of the house. Or one room may be finished in oak panels while another has white enamel wood finish. It is evident that a different background is desirable in these various circumstances.

While we find that increased space is apparently afforded if communicating rooms are papered alike, this should only be done if they have a similar degree of formality and are subject to the same conditions of exposure and light. But do not assume that we are recommending a patchy, jumpy effect, for while the colors need not be identical, they must be harmonious. Strong contrasts and clashing things must be studiously avoided.

In papering rooms that adjoin, one may use the same color in different texture. Or one may reverse the emphasis, having, say, one room chiefly blue with accents of tan, while the adjoining room is chiefly tan with the accents of blue. Or if one of the colors is not suitable in both rooms, at least the other should be, so that a proper inter-relation is preserved to prevent clashing.

It may be noted here that light colors in the wall paper make a room seem larger and lighter, and give the effect of cheer, daintiness and cleanliness. Used to excess, a sense of barrenness results. Dark colors, on the other hand, decrease the size of the room but produce a certain dignity and richness of effect. If these are used too much without relief, the result is gloomy or dingy, and hard to illuminate.

Even in the selection of the so-called neutral tones, there are differences in tone to prevent monotony or identity in all the rooms. North and east rooms need the warming quality of ivory and yellowish creams; sunny south or west rooms may be grayer and cooler. Oak furniture is better against a wall which has an ivory, not a gray element to supplement the yellow-brown of the oak, while a gray background is somewhat more pleasing for mahogany.

If the ceiling of a small room be low, the use of a wallpaper with simple self-toned stripes will increase its apparent height. If the room be not quite so small, the vertical stripes may have contrasting color which would feel close and oppressive in the very little room.

Small rooms require small patterns, if



any, and the simpler the effect, the better. For larger rooms, larger scale, and bolder color is permissible. When the ceiling is low, the cornice or picture molding should be at the top of the wall where the ceiling actually joins on.

Architectural dignity is achieved by using formal papers in formal rooms. Period wallpapers and other formal types are available, but must be exactly adapted to their surroundings. Just because they are expensive does not make them a satisfactory choice. They would, for example, be too serious for bedrooms where floral or two-toned simple designs are preferable and much less costly.

While Adam paper is suitable for a room of Chippendale, Sheraton, Hepplewhite or other Georgian furniture, it will not go with a room that has casement windows, low beamed ceilings, inglenook and other features of simple country cottages, or with the heavy dark oak aspect of Tudor, Flemish or Jacobean styles.

A wall has an architectural mission to perform—to hold up and support the room. It must look strong enough to do this, and the idea of making it vague and uncertain in its decoration is in opposition to its purpose. No wonder that decorators have reacted enthusiastically to the presentation of papers that emphasize texture instead of pattern. Grasscloths, plasters, leathers, damasks and others in remarkable variety are available. The texture of wallpaper has a good deal to do with its architectural value. Whether it be rough or smooth, fine or coarse, or like the numerous stuffs which it simulates, greatly affects the result, and presents both opportunity and responsibility.

It is well to know what kind of furniture is to be used in the room to be papered, and, of course, if it is a new house, this will be largely determined by the wood trim. Oak is an open grained wood, and both in furniture and paneling is generally carved and heavy. It therefore requires a wall with coarse texture, such as rough plaster finishes, tapestry papers and the like, never a satin striped or other delicate effect.

Where the wood is white, enamel or gray, and mahogany furniture would logically be used the opposite is true. We then have a smooth reflecting surface, and delicacy of texture in the wallpaper is suitable.

Smooth finish is necessary and coarse textures should be debarred for they would overpower the room. The simple bungalow with perhaps its mission or other similar furniture also requires coarse supporting texture in wallpapers. Its almost crude simplicity would make any delicate satiny finish in wall paper a caricature. The straight lines of mission furniture need sturdy background

and this is found in rough plaster, bur-lap, tapestry and the leather effects in wallpaper textures.

When, on the other hand, the ceiling is too high for the width, as is usually the case in the narrow hall, the cornice line should be brought down on the wall. For narrow rooms and halls, tapestry effects with depth and distance may be successfully employed.

Since the hall is often centrally located in the house, and receives little light, wallpaper in the light tones should be selected. A light-toned tapestry not only increases the apparent size of the hall by virtue of reflecting more light, but also by having perspective in its design that carries the eye into remote depths and subtle shadows. Its colors may also anticipate the color schemes of the rooms opening from the hall, thus making a harmonious and unified whole.

The high ceiling may also be reduced by resorting to devices that emphasize the horizontal lines. Divide the height of the wall into three parts, a deep dado and cornice, in addition to the field, and treat each one differently with proper interrelation.

The dining room and the hall often have a dado. This is the name for what was formerly called a wainscot, which in turn means wall-protector, a covering of wood laid against stone or brick walls for comfort and warmth.

Originally before plaster was employed, its object was purely useful, although according to the means of the builder, it was carried to greater or less height. Plaster was then introduced as substitute for wainscoting, and as it was cheaper and easier to apply to the wall, and as wood grew scarcer, people ceased to employ it at all for sheathing inside walls, the only vestige being the baseboard to keep the scrub brush from plaster or paper, or to prevent chairs from rubbing up against it.

The dado, then, should have a structural aspect. A rich, dark leather paper in deep colors to hide defects of wear and to afford structural appearance and support like wood is a favorite choice for the dado in a room where there is a certain richness in furnishings. Lincrusta papers which come in a wide variety of styles for this purpose are also admirable.

Tapestry paper is well placed above a dado in order to keep the feeling of solidity about the wall itself, reserving the shadowy depths in the tapestry pattern for the upper portion where they are obviously an illusion. Especially since tapestry papers are so often used to emphasize width, the dado which makes a decided horizontal line, increases the desired effect by reducing the height.

Rooms on one floor usually have the same height but are otherwise of different dimensions. This means that they cannot all be correctly proportioned, and here is an opportunity for frieze or border to make the necessary modifications. Borders should not be placed at random just for variety or novelty. They must do what the name implies, border upon something, conforming strictly to its lines. A rambling border draped around like a bow knot has nothing to recommend it. It must confine something like a frame, and just as you would not hang an empty frame, neither should you plan borders aimlessly flowing toward some unknown destination.

A border is used to mark panels, to accent windows or doors and for similar purposes. A frieze goes along at the top of the room horizontally, and does not lapse into any other position. The frieze performs its best function when it is deliberately selected to modify the height of the room.

Do not have friezes with realistic designs that show a hundred woodchoppers on the verge of felling a hundred trees all day and all night, or equally disturbing and startling scenes. Avoid the calamity of half a man or beast at the end of the frieze, especially if it is in a playroom or nursery.

Conventionalized patterns are always preferred, as one is spared the unsatisfied suspense of waiting for something to happen, as a flying bird that will never alight on the tree a half inch away.

The use of wall paper in panels also presents an air of importance as architectural embellishment that is more difficult to achieve when the paper is hung continuously. It enables one to use a stronger and more decided pattern partly because its insistence is relieved by the enclosing moldings, and partly because actually less of the pattern is used, for it is surrounded by wood surface. The effect of framing also makes a pictorial wallpaper a pleasing choice, and this panel arrangement is one of the most pleasing ways to use pictorial paper.

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**The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.**

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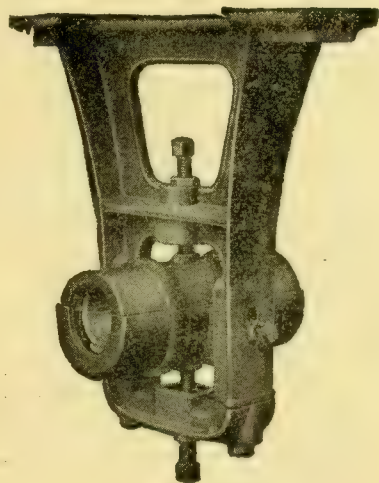
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 39  
September 26, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

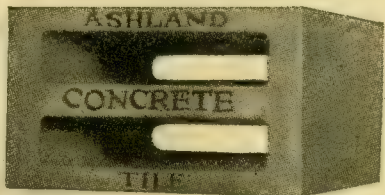
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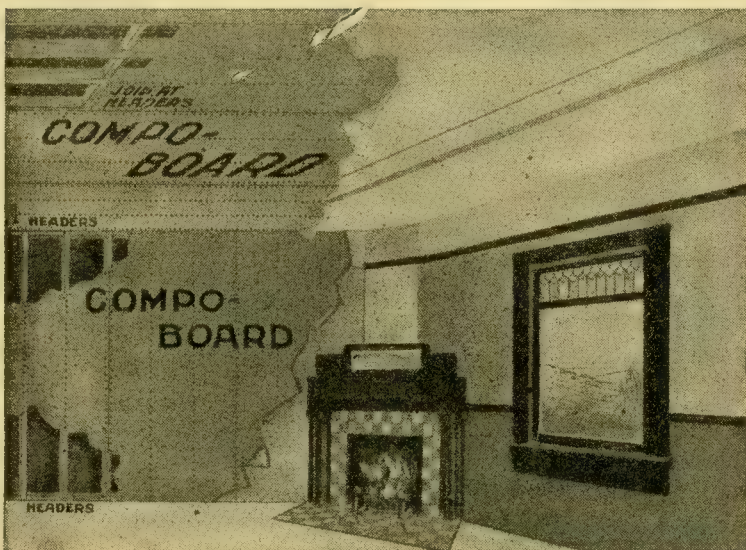
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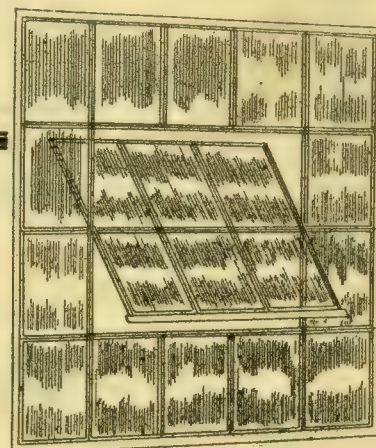
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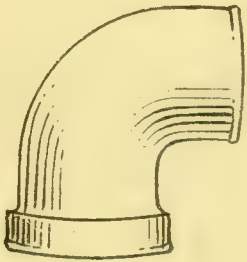
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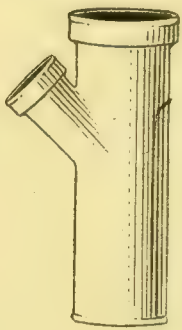
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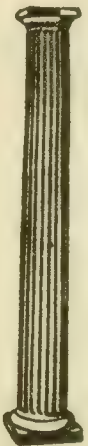
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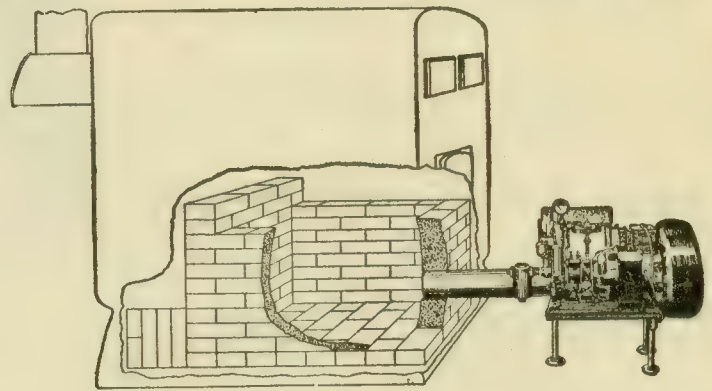
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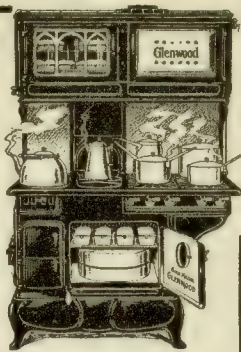


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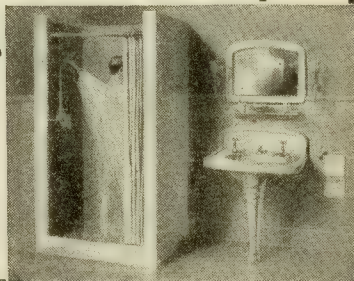
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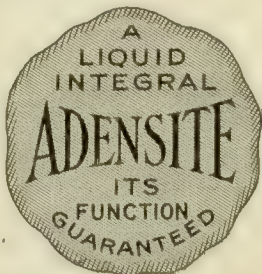
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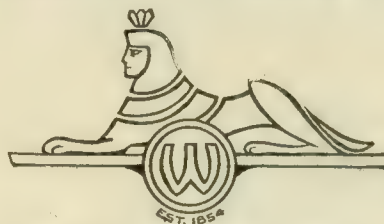
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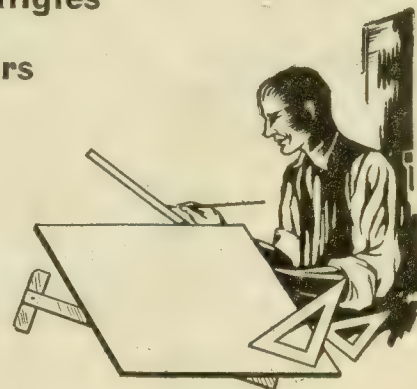
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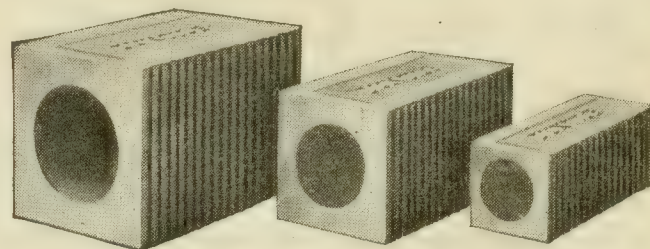


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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 39

PHILADELPHIA  
September 26, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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## As The Editor Sees It



### NEW FEATURES IN APARTMENT HOUSE BUILDING

BY E. A. MAC DOUGALL

President, The Queensboro Corporation,  
New York

Address Before the Convention of the  
National Association of Real Estate  
Boards, Cleveland, Ohio, June 29th,  
1923.

#### The Problem

Apartment houses with the new features which I will describe and discuss, will provide the better homes which people today are demanding and will thus help to solve the housing situation in many large American cities.

The accelerated growth of apartment house building generally has been brought about by increased expenses and difficulties of maintaining an individual home. The problem of servants, coal, furnace attention, garden and general upkeep, has been felt by a great many householders to be insupportable. This condition has been nation-wide and has resulted in the building of many apartments throughout the country.

I suggest that the real estate profession take a lesson from the automobile business and each year bring out a better product to improve this situation.

#### The New Features in Apartment Building

There are two essential new features of these apartment houses. From the economic standpoint the apartment will

be sold on a co-operative basis to its tenant-owners. From the structural standpoint it will have an interior garden with all that it implies and connotes. The builder who fails to recognize at this time the need of providing houses of a type that makes for economy of use as well as of cost fails to meet the demand of the public. The architect of apartment houses, too, must provide in his planning, for all the advantages, such as section, as the highly restricted beautiful residential district of Cleveland affords.

These new features have already been put into effect in the garden apartment development at Jackson Heights. If I speak later of this particular development I do so only in order to deduce from a successful experiment the general principle which must apply in the solution of the entire problem. Let me tell you how these two features developed.

#### The Park Avenue District

First, however, let us describe for the sake of later comparison, the Park Avenue district of Manhattan Island, which is in a way typical of the better apartment house districts of other cities. It is the section most sought after by wealthy people in New York City and where the most expensive type of apartments are still being built. Land values here are very high. On the street leading off Park Avenue, which do well for

purposes of comparison, the apartments are of six, seven and eight rooms.

Even this relatively high cost of land per family is based on the use of 70% to 90% of the land area. The buildings often hold several hundred families. It is necessary, in that neighborhood, to cram just as many human beings as can be persuaded to live there, on a given area of land.

In these Park Avenue buildings of the best type some of the apartments, principally those which front on the street, have good light and air, but many of the rest, those on the sides and rear, have a narrow outlook on small courts. Custom makes people put up with these conditions but comparison with the individual house is inevitable and unfavorable. Then, too, many of these Park Avenue properties depend for their light and air on their neighbors. There are still many low buildings in this district. As soon as they are "scrapped" as they are bound to be, and the neighboring properties improved, many of these luxurious apartments, bringing high rentals, will lose their sunlight and outlook, and their rental value will be heavily depreciated.

At Jackson Heights we have not the same hampering restrictions as has the Park Avenue district, where the land is already well built up, good plottages are difficult to obtain, and where the land is excessively costly, compelling building high in the air.

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We have learned as a result that a city block is the best unit of apartment building. By studying the cost per family of the land used and keeping in mind that we must compete with the individual home we have discovered that we can build as low as 38% of the lot area covered in seven and eight-room apartments, only six stories high and create a wonderful garden and open space.

We can build in small units with only two families to a floor assuring privacy. Each apartment has three or four exposures like a country house. The principal rooms and some of the bedrooms are corner rooms and the space between the buildings is 36 feet 8 inches, so that the buildings are separated, not so much by passage-ways as by lawns. These side lawns open into a vast interior garden running the whole length of the block, 80 feet or more in width, providing an outlook and a garden character which is unthinkable in Park Avenue. In fact, it can seldom be found in any save the largest estates.

#### *Progress and Improvement*

Briefly here is the story of how we have improved the type of apartments, year by year, which you recall I said at the start, was essential if the housing desires of the people were to be met.

In 1920 we built a block of twelve four-story walk-ups, apartments designed by Andrew J. Thomas, in which the passage-ways between the buildings were 15 feet. The kitchens and fire escapes and some of the baths were on these passages. This space added greatly to the value of the apartment since in summer they did much to create a circulation of air and to admit sunlight to the group. This group occupied about 40% of the area of the block.

This group attracted to Jackson Heights many people who wanted more luxurious five and six-room apartments with larger rooms than could be had in the four and five-room apartments and we, accordingly, had Mr. Thomas design this group of apartments called the Chateau Apartments. We carried up the buildings to five stories, two apartments to a floor, using push button elevators. We reduced the area occupied by increasing the side spaces between the buildings to 19 feet 6 inches in the shortest dimension. The buildings were fireproof on the first floor with fireproof exterior walls, roof, and elevator and stair wells.

#### *The 1924 Design*

This proved successful and as a result

we have now under construction a third improvement, our 1924 model. In this group the apartments are of seven and eight rooms on an average. We retained the general plan of having two apartments to a floor and improved the older group in every respect that we could think of, whether it was in planning the arrangement or little details and refinements of construction and specifications. The big improvement was in adding another story, in making the buildings fireproof and placing the building 36 feet 8 inches apart, and in making the area occupied by the buildings 38%. We feel that we now have a model which has all of the advantages of the Park Avenue apartment without its weakness, and which really competes with the individual home.

#### *One New Feature—Co-operative Ownership*

Co-operative ownership which we have adopted at Jackson Heights is one of the things that makes possible this type of apartment. The family which owns a cooperative apartment is there to stay and they look upon it as a permanent home. They are consequently just as particular to have it perfect and complete in every respect as if they were going to the best architect and having him design for them the best individual home that he could produce.

The rental apartment, on the other hand is not built for permanence, but often as a speculation. The tenants are apt to look upon it as a temporary refuge and they are more ready to live in four or five-room apartments with possibly one bath.

In a co-operative apartment, seven or eight rooms are a better size with two or three baths, servant's room and bath and the most complete kitchen and dining arrangement, closet space and other details.

Since the war, the increased cost of renting has become so great that many apartment dwellers have been unable to keep up their apartment homes. Caught between the expenses of private home ownership and the expenses of rental of an apartment, apartment ownership by tenants has been a natural solution and should continue to be so.

Tenant-ownership in itself is not new. It goes back both in this country and abroad to the time of the first apartment building. In some instances in the early days perpetual leases were given to tenants. These leases become very difficult to handle as death and changes introduced complications in the original ownership of the buildings. But here too American ingenuity gradually overcame difficulties and developed a mode of procedure.

(Continued on Page 621)

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**Office Building**, Northeast Corner Broad and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Heyman & Brothers, 213 South Broad street, Philadelphia. Brick, steel, concrete, 40x150 feet. Preliminary plans in progress. Too early for details.

**Store and Apartment (alts. and add.)**, Southeast Corner Sixteenth and Christian streets. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Landers, Northwest Corner Sixteenth and Christian streets, Philadelphia. General alterations and additions. Plans in progress.

**Laundry Building (alts. and add.)**, Market to Filbert streets, East of Forty-first street, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Modern Laundry, on premises. Brick, mill construction, 1 story, 32x160 feet, slag roof, maple floors, electric light, hollow metal, saw tooth skylights, plumbing. New front to old building on Market and Forty-first street side, cut stone and Indiana limestone, rolled steel sash. Plans in progress.

**Residence and Garage**, Seventieth and Overbrook avenue. Architect, Joseph Lowery, 336 Land Title Building, Philadelphia. Owner, J. M. Gallagher, Fifty-fifth and Springfield avenue, also Perry Building, Philadelphia. Brick, and frame, 2½ stories, 70x30 feet, garage, 1 story, 22x24 feet, hot water heat, electric light, tile and marble work, hardwood floors, slate roof, cement work. Owner will take sub-bids.

**Residences and Garage (2)**, Eleventh street and Sixty-fifth avenue, Philadelphia. Architect, K. F. Otto, 1828 Arch Street, Philadelphia. Owner, Dr. Lyle H. Rickards, care of architect. Stone and cement block, 2½ stories, 25x38 feet, garage, 1 story, 20x20 feet, hot water heat, electric light, shingle roof, hardwood floors, tile and marble work. Architect ready for preliminary sub-bids.

**Store (alts. and add.)**, 279 South Fifty-second street, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Marcus Friede, on premises. Brick, 2 stories, 19x20 feet, hot water heat, electric light, tile work, electric elevators, composition floors, slag roof, plate glass, metal ceilings, copper bulks. Owner will take bids.

**Library (alts. and add.)**, 218 South Nineteenth street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia City Institute Library, Eighteenth and Chestnut streets. Brick, cut stone, slag roof, pine floors, painting and glazing, hardware, plumbing, iron work, hollow metal doors and sash tile and marble work, metal lath. Architect taking bids due September 28th.

**Stores and Apartments**, 2745-48 Kensington avenue, Philadelphia. Architects, Stewart & Winslow, 6318 North Opal street, Philadelphia. Owner, Mr. Aaron Lare, 234 South Fifty-first street, Philadelphia. Heating and lighting alterations, metal bulks, metal ceilings, mill work, painting and glazing, plastering, stair work, oak floors. Owner taking bids due September 27th.

**Alterations**, Northeast Corner Seventh and Chestnut streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, cut stone, reinforced concrete, cement work, 5 stories, 52x57 feet, slag roof, composition floors, metal lath, tile and marble work, plastering, carpentry and mill work, roof ventilators painting and glazing, hardware, cold water painting, metal bulks, damp-proofing, architectural terra cotta, iron work, bond, metal and kalamein doors. Architect taking bids due October 1st, 2 P. M.

**Alterations and Additions**, 1425 Chestnut street, Philadelphia. Architect, Frank Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, cement, reinforced concrete, roof repairs, composition and oak floors, metal lath, tile and marble work, kalamein doors, bond, ornamental iron work, carpentry and mill work, painting and glazing, hardware. Architect taking bids due October 1st, 2 P. M.

**Building**, 107-15 Race street, Philadelphia. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, J. Frank Shellenburger, Front and Race streets, Philadelphia. Brick, granite, cut stone, 5 stories and basement, 94x71 feet, slag roof, cement floors, hollow tile, waterproofing, terra cotta, rolled steel and kalamein doors, galvanized iron

skylights, rolled steel sash, tile work, metal lath (elevators, heating, plumbing, electric work reserved). Architect taking bids due September 27th.

**Restaurant**, 1209 Market street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Wong Kew Restaurant, on premises. Alterations to door, electric light, carpentry and mill work, marble work. Architect taking revised bids due as soon as possible.

**Garage (add.)**, 7151 Germantown avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mrs. Robert J. Barr, on premises. Brick, 2 stories, 24x23 feet, slag roof, cement floors, iron work. Architect taking bids due September 28th.

**Evergreen Central Office Building**, 3808 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Philadelphia, Seventeenth and Parkway, Philadelphia. Brick, limestone, steel, 2 and 3 stories, 220x91 feet, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, fire, kalamein, hollow metal doors, bond, floor hardener, iron work, waterproofing and damp-proofing, hollow tile, cement floors, slag roof. Architect taking bids due October 4th.

**Foot Bridge** on line of Prospect avenue, South of Elkins Park Station, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway Company, Reading Terminal, Philadelphia. Structural steel, reinforced concrete, 86 feet long, 11 feet wide. Architect taking bids due October 4th.

**Garage**, 2444 Germantown avenue, Philadelphia. Architect, private plans. Owner, John McCaffery, Inc., on premises. Brick and steel, 1 story, 60x78 feet, steam heat, electric light, slag roof, cement floors. Owner taking bids.

**Laboratory of Hygiene**, Second and Luzerne streets, Philadelphia. Owners, Department of Public Health, Bureau of Charities, City Hall. Furnishing scientific equipment. Owners taking bids due October 1st, noon (Standard time). Plans and specifications may be obtained from Room 584.

**Hospital**, Thirty-fourth and Pine streets, Philadelphia (Power House). Replacement, repairing and improvements to machinery. **Administration Building**, Byberry. Furnishing, installing tables, sinks, counters, black iron case work, wall tables, display cases, electric centrifuge. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Department of Public Health, Bureau of Hospitals. Owners taking bids due October 1st, noon (Standard time).

**Residences (6) and Store**, Germantown and Mt. Pleasant avenues, \$37,500. Architect, private plans. Owner, Israel Barkan, 4242 Stiles street, Philadelphia. Brick, 2 stories, 20x70 feet and (5) 16x50 feet, 13x10 feet, slag roof, hardwood and pine floors, hot wa-

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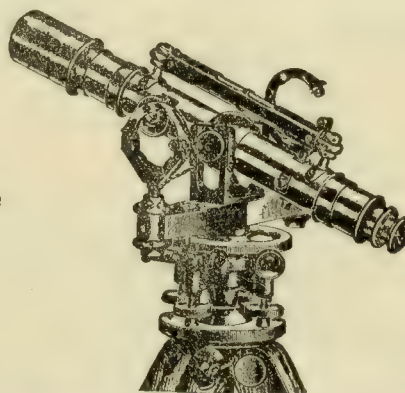
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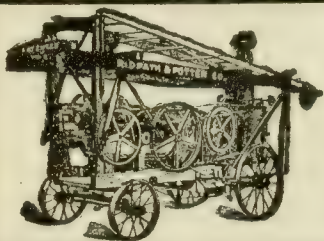
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**Garage**, West side Fifty-eighth street, North of Woodland avenue, \$30,000. Architect, John Swartley, 5609 Pine street, Philadelphia. Owner, Edward V. Holland, 5005 Sansom street, Philadelphia. Brick, 1 story, 100x104 4 feet, slag roof, cement floors, electric light. Owner will build.

**Residences (3)**, Woodland avenue and May street, Philadelphia, \$22,500. Architect, private plans. Owner, Louis Fine, 4622 Woodland avenue, Philadelphia. Brick, 2 stories, 18x40 feet and 16x56 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (7)**, Stenton avenue and Ellwood street, Philadelphia, \$43,000. Architect, private plans. Owner, C. F. Hammond, 1712 North Twenty-sixth street, Philadelphia. Brick, 2 stories, (5) 19x30 feet, (1) 16x41 feet, and (1) 19x32 feet and 10x19 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Manufacturing Building**, Delaware avenue and Marlborough street, \$20,000. Architect, private plans. Owners, Blue Diamond Co. of Philadelphia, on premises. Iron, 1 story, 81x30 feet, 59x16 feet, corrugated iron roof. Owners will build.

**Apartment House (alts.)**, Northeast Corner Fifteenth and Susquehanna avenue, \$12,000. Engineers, Golder Const. Co., 274 South Twentieth street, Philadelphia. Owner, George H. Kohler, on premises. Carpentry, mill work, painting, glazing, tile work, plastering, electric lighting. Engineers will build.

**Residence (alts. and add.)**, 1829 Pine street, Phila., \$10,000. Engineers, Golder Const. Co., 274 South Twentieth street, Philadelphia. Owner, Dr. J. A. Langbold, on premises. Brick, 1 stor yadd., 7x16 feet, general alterations, tile work. Engineers will build.

**Residences (6)**, West side Heyward street, North of Carpenter's Lane, \$12,000 each. Architect, private plans. Owner, Robert Kilough, Wayne avenue and Duval street, Philadelphia. Stone, 3 stories, 18x38 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2)**, East side Stenton avenue, North of Logan street, \$8,000 each. Architect, private plans. Owner, H. E. Cassel, 4640 Stenton avenue, Philadelphia. Brick, 2 stories, 30x28 feet, 3 stories, 30x19 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

**Residence**, South side Emerson avenue, East of Castor road, \$44,200. Architect, private plans. Owner, Harry D. Taylor, 2032 Buckius street, Philadelphia. Brick, 2 stories, 16x46

feet, slag roof, electric lighting, hardwood and pine floors. Owner will build.

**Residences (4)**, East side Mitchell street, North of Shurs Lane, \$4,000 each. Architect, private plans. Owner, Walter Rowland, 4403 Dexter street, Philadelphia. Brick, 2 stories, 20x30 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (6)**, West side Jackson street, South of Unruh, \$4,000 each. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x38 feet, pipeless heater. Owner will build.

**Garage**, Stenton avenue and Logan street, Philadelphia, \$2,700. Architect, private plans. Owner, H. E. Cassel, 4640 Stenton avenue, Philadelphia. Stone and brick, 2 stories, 20x34 feet, slag roof, cement floor. Owner will build.

**Garage**, 4909-15 North Fairhill street, Philadelphia, \$2,400. Architect, private plans. Owner, Robert Sulry, on premises. Brick, 1 story, 80x12 feet, slag roof cement floors, electric work. Owner will build.

**Apartment (add.)**, 1530 Diamond street, Philadelphia, \$2,500. Architect, private plans. Owner, C. J. Norton, on premises. Brick, second and third story add., 14x9 feet. Owner will build.

**Cohocksink Recreation Building**, Ann, Cedar and Cambria streets, Philadelphia. Architect, Horace Wells Selers, Stephen Girard Building, Philadelphia. Owners, City of Philadelphia, Bureau of Recreation, 595 City Hall. Reinforced concrete, brick, steel, cut stone, 2 stories, 97x62 feet (plumbing, heating, electric separate), slag roof, cement and maple floors, iron work, bond, fire and hollow metal doors, tie work, metal lath (auditorium omitted). Lowest bidders: J. B. Kelly, 2315 Walnut street, Philadelphia, Item A, \$97,359; Item B, \$94,159. Bowden Const. Co., 1935 Chestnut street, Philadelphia, Item A, \$102,900; Item B, \$100,900. Heating, C. J. McCarthy, 1723 Sansom street, Philadelphia, \$7,979. Plumbing, J. Bugger, 2124 East Cumberland street, Philadelphia, \$6,975. Electric, Greenwood Engr. Co., 3314 Lancaster avenue, \$2,552.

**Store and Office (alts. and add.)**, 1707 Chestnut street, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Abraham Felt, Land Title Building, Philadelphia. Brick, rear addition, 1½ stories, 19x37 feet, slag roof, pine floors, plumbing, tile and marble work, electric light (heating separate), hollow metal skylights, fire escapes, cabinet work, plastering, painting, ornamental iron work. Architect ready for bids.

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**Private Garage**, 1753 North Thirty-third street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Daniel Slutsky, on premises. Brick, 1 story, 16x15 feet, concrete roof, cement floors, hot water heat, electric light. Plans completed.

**Apartment**, 5613 Summer street, Philadelphia. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, Charles Risi, 5611 Summer street,

Philadelphia. Brick, 2 stories, 24x45 feet, slag roof, pine floors, gas radiation heating, electric lighting. Architects taking bids due as soon as possible.

**Residence**, Northeast Corner Logan street and Stenton avenue, Philadelphia, \$8,200. Architect, private plans. Owner, H. E. Cassell, 4640 Stenton avenue, Philadelphia. Brick, 3 stories, 19x13 feet and 22x28 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Philadelphia High School for Girls (fire tower)**, Seventeenth and Spring Garden. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Reinforced concrete, steel, brick, cut stone, brownstone, shingle roof, metal lath, hollow metal sash, rolled steel skylight, bond, fire doors, dampproofing, terra cotta, roof ventilators, safety treads, iron work. Contract awarded to W. Langhorne, 3420 Locust street, Philadelphia, \$22,200.

**School (add. to Landreth School)**, Twenty-third and Federal streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, steel, reinforced concrete, granite, cut stone, 3 stories and basement, 111x35 feet, 13x26 feet, 2 fire towers, 20x10 feet, composition and slate roof, cement, asphalt, mastic floors, oak floors, hollow tile, metal lath, roof ventilators, iron work, waterproofing and dampproofing, terra cotta, fire stairs, doors, marble and slate work, asbestos moving picture booth (plumbing, heating and electric work reserved). Contract awarded McCloskey Co., 1620 Thompson street, Philadelphia, \$277,429. Plumbing, D. J. Keating, 20424 Rittenhouse street, \$13,925. Electric, J. F. Buchanan Electric Co., 1715 Chestnut street, \$10,876. Heating, N. Connolly, 1404 North Eighteenth street, \$44,788. Ventilating, Thompson Brothers, 520 Buttonwood street, \$1,465.

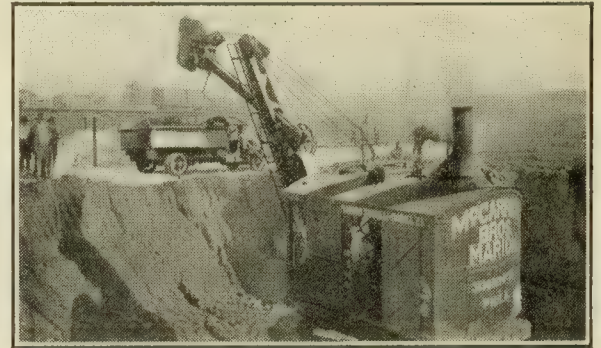
**Bridge Work**, Delaware River, Philadelphia and Camden. Owners, Delaware River Bridge Joint Commission, J. M. Costello, secretary, 608 Widener Building, Philadelphia. Two main cables to be erected between Philadelphia anchorage (Delaware avenue, Race, Front and Summer streets), Camden anchorage (North of Pearl street and about 472 feet West of Delaware avenue in Camden), passing over main tower located in the Delaware River near pier head lines on Pennsylvania and New Jersey sides. Wire cables, suspen-

sion ropes, steel castings, bolts, ropes, structural steel, cast iron. Contract awarded Keystone State Const. Co., 210 South Thirteenth street, \$2,543,900.

**Store and Office**, Sixteenth and St. James streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Sterling Realty Co., Sixteenth and St. James streets, Philadelphia. Brick, reinforced concrete, limestone, granite, steel, 10 stories and basement, 40x65 feet, steam heat, electric light, marble, slate and terrazzo work, hollow metal doors, bond, iron work and stairs, slag roof, concrete and pine floors, elevators, safety treads, dampproofing and terra cotta, mail chutes. Contract awarded Roberts & Roller, 1904 Sansom street, Philadelphia.

**Dairy Building**, Marvine below Jefferson street, Philadelphia. Architect, private plans. Owners, Supplee-Wills-Jones, 1532 North Twenty-sixth street, Philadelphia. Brick, reinforced concrete, steel, 2 stories, 56x48 feet, 56x56 feet (heating, electric, pipe covering, sprinklers, refrigerators reserved), slag roof, concrete floors, plumbing, metal ceilings, waterproofing, iron work, fire doors, tile work, metal lath. Contract awarded George Kessler Cont. Co., 1733 North Marvine street.

**Garage and Show Room**, Hunting Park avenue, Philadelphia. Architect, private plans. Owners, North Philadelphia Sales Co., on premises. Brick, 1 story, 38x172 feet, slag roof, ornamental terra cotta, mill work, copper store front, plate glass, steel sash, structural steel, concrete floors, cut stone, electric wiring, heating and plumbing, plastering. Contract awarded Albert Dunlap, 7223 Oak avenue, Oak Lane, Philadelphia, who is taking sub-bids.



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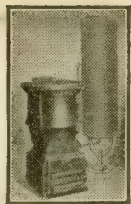
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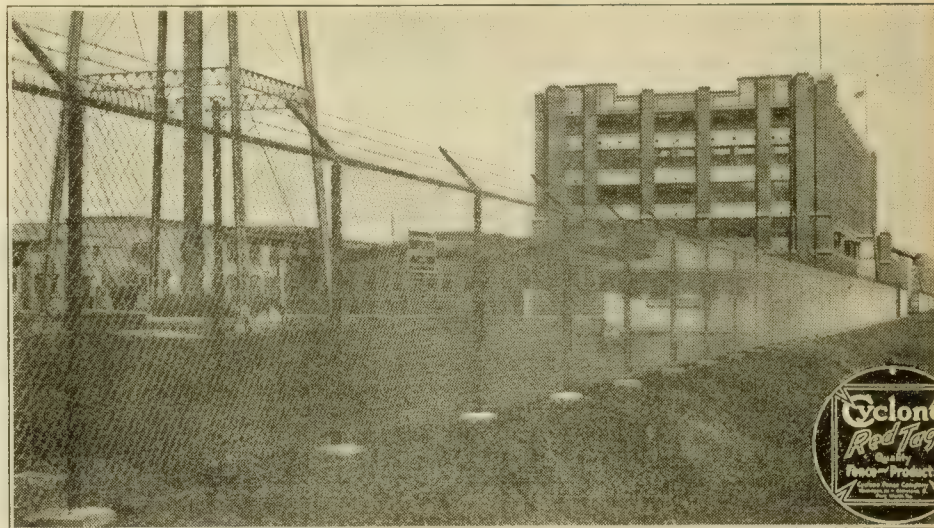
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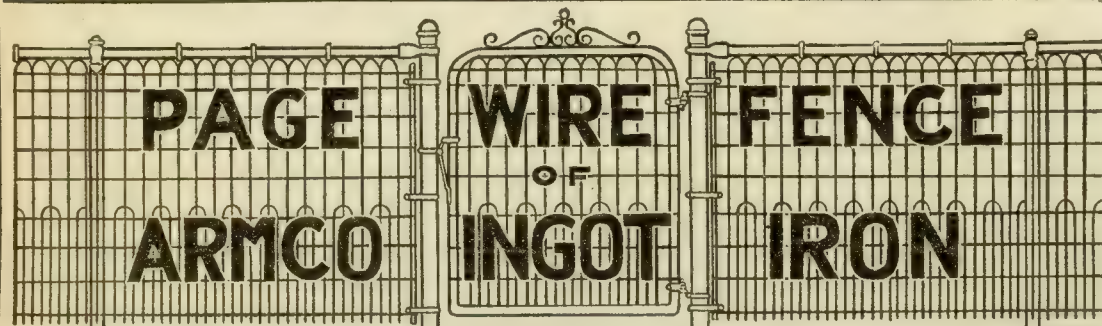
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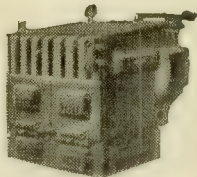
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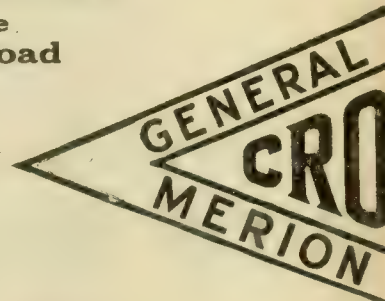
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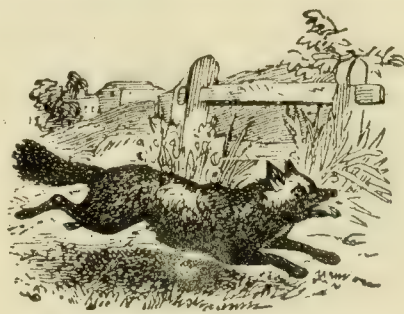
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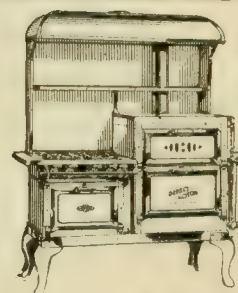
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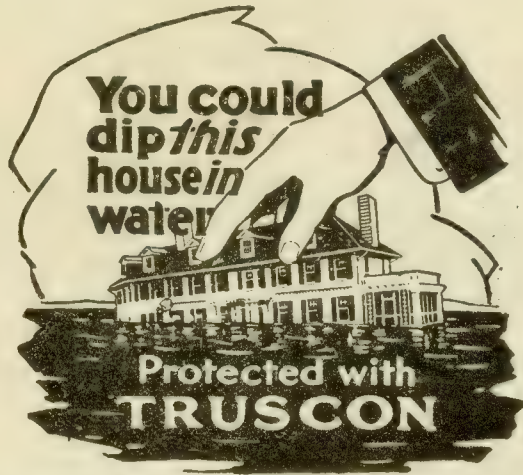
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**Office and Storage Building**, Sixth and Washington Square, Philadelphia, \$125,000. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Lea & Febiger, 706 Sansom street, Philadelphia. Stone and brick, 3 stories and basement, 50x90 feet, built-up roof, concrete floors, freight elevator, fire doors, marble work, vapor heat, electric light. Contract awarded to Robert E. Lamb Co. 843 North Nineteenth street, Philadelphia.

**Factory**, Nalima and Race streets, Philadelphia. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owners, Keystone Index Car Co., 14 South Twenty-first street, Philadelphia. Brick and steel, 2 stories, 70x156 feet, electric light, slag roof, maple floors, rolled steel sash, fire doors, iron work. Contract awarded Smith Hardican Co., 1809 Callowhill street.

**Class Room (alts.)**, Forty-ninth and Chestnut streets, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, West Philadelphia Catholic High School, care of D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Alterations to heating and electric work, carpentry and mill work, plastering, painting and glazing. Contract awarded F. V. Warren, 1913 Arch street, Philadelphia.

**Manufacturing Building**, Northeast Corner Cottman and Milnor streets, \$60,000. Architect, Irving Demarest, 1635 Thompson street, Philadelphia. Owners, Delany & Co., on premises. Brick, 2 stories, 175x139 feet, slag roof,

electric work, steel sash, pine floors. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

**Swimming Pool (alts.)**, Corinthian and Girard avenues, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises. Removing old tile, new lead sheet floor. Contract awarded E. H. Keefer, 1321 Rodman street, Philadelphia.

**Manufacturing Building (alts.)**, Richmond and Berks streets, \$20,000. Architect, private plans. Owners, Remington & Sherman Co., 636 Richmond street, Philadelphia. General alterations, concrete work, plastering, steel sash. Contract awarded to Austin Co., Jefferson Building, Philadelphia.

**Residence**, Boyer street, near Haines street, Philadelphia, \$15,700. Architect, private plans. Owner, Peter W. Deacon, 906 East Chelton avenue, Philadelphia. Stone, 2½ stories, 40x21 feet, 15x29 feet, tile roof, oak and pine floors, electric light, hot water heat, tile work, iron work. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

**Apartment House (alts. and add.)**, 5013 Wayne avenue, \$7,300. Architect, private plans. Owner, M. S. Jeffries, on premises. Brick, 3 stories, front add., 15x19 feet, general alterations. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

**Residence (alts.)**, 318 South Twenty-first street, Philadelphia, \$6,000. Architect, pri-

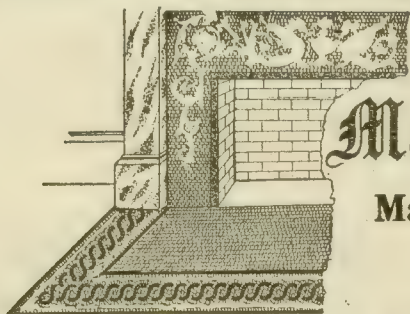
vate plans. Owner, Oscar Imenberg, on premises. General alterations. Contract awarded to Alex. E. Voigt, 6108 North Tenth street, Philadelphia.

**Storage Building**, Northwest Corner Foulkrod and Leiper streets, \$5,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Iron, 1 story, 40x80 feet, corrugated iron roof. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Apartment House (alts.)**, 3724 Baring street, Philadelphia, \$4,500. Architect, private plans. Owner, J. B. McClure, 18 South Fortieth street, Philadelphia. General alterations. Contract awarded to Warren E. Biscoe, 3946 Baring street, Philadelphia.

**Store and Storage Building (add.)**, 1512 Vine street, \$3,500. Architect, private plans. Owner, Edward M. Flood, Northeast Corner Sixteenth and Cherry streets, Philadelphia. Brick, 1 story add., 19x52 feet, slag roof, yellow pine floors. Contract awarded to George E. Gross Co., 1613 Chestnut street, Philadelphia.

**Garage (add.)**, West side Twenty-fourth street, South of Carlton, \$8,400. Architect, private plans. Owners, Van Seiver Corporation, on premises. Brick, 1 story add., 30x30 feet, slag roof, cement floors, steel sash, electric work. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.



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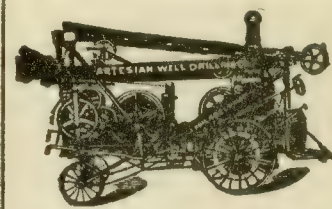
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**Residence (alts. and add.) and Garage,** 5315 Wynnefield avenue, Philadelphia, \$7,500. Architect, William L. Chara, 149 South Fourth Street, Philadelphia. Owner, S. Lazar, 2923 Oxford street, Philadelphia. Brick, 1 story add., 11x12 feet, general alterations, garage, 2 stories, 19x25 feet, slag roof, cement floors. Contract awarded to A. Laub, 812 Wyoming avenue, Philadelphia.

**Building (alts.),** East side Thirty-second street, South of Jefferson, \$6,000. Architect, private plans. Owners, Philadelphia Electric Co., 132 South Eleventh street, Philadelphia. New slag roof. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

**Building (add.),** 5411 North Water street, Philadelphia, \$4,500. Architect, private plans. Owners, Suburban Laundry, on premises. Brick, 1 story add., 40x40 feet, slag roof, cement floors. Contract awarded to William L. Bushnell, 2146 East Norris street.

**Residence,** East side Ferndale street, North of Veree road, \$3,800. Architect, private plans. Owner, Rudolph Legge, 3405 North Henley street, Philadelphia. Frame, 1 story, 27 feet, 4 inches x 33 feet, 4 inches, pine floors. Contract awarded to H. A. Lemke, 416 Ashdale street, Philadelphia.

**Store (alts.),** 2728 Germantown avenue, Philadelphia, \$3,500. Architect, private plans. Owner, Grover C. Diemer, Seventh and Clearfield streets, Philadelphia. General alterations. Contract awarded to John F. Carberry, 5729 McMahon avenue.

**Store and Residence (add.),** 1318 North Fifty-second street, Philadelphia, \$3,500. Architect, private plans. Owner, James V. Cincinnati, 1243 North Fifty-second street, Philadelphia. Brick, 1 story front add., 16x12 feet. Contract awarded to Joseph Desposter, 5217 Harlan street, Philadelphia.

**Manufacturing Building (alts.),** 226 Lombard street, \$2,400. Architect, W. H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. General alterations. Contract awarded to William G. Uhlers' Sons, Twenty-fifth and Snyder avenue.

**Shop,** North side Chestnut street, East of Thirty-first street, Philadelphia, \$2,500. Architect, W. H. Timm, Perry Building, Philadelphia. Owners, Abbott's Alderney Dairies, on premises. Brick, 1 story, 35x40 feet, slag roof, pine floors. Contract awarded to William G. Uhlers' Sons, Twenty-fifth and Snyder avenue.

**Residences and Stores (4) (alts. and add.),** 1328-30-32-34 North Sixtieth street, \$2,500 each. Architect, private plans. Owner, Frank Harrison, 619 South Fifty-second street, Philadelphia. Brick, 1 story, front add., 15x12 feet each, general alterations. Contract awarded to Edward Holland, 5005 Sansom street, Philadelphia.

**New Front,** North side Belfield avenue, West of Fifteenth street, \$2,500. Architect, private plans. Owners, J. W. Farrell Co., on premises. Brick front, 1 story, general alterations. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

**Residence (alts.),** 1951 South Sixty-fifth street, Philadelphia, \$3,000. Architect, private plans. Owner, W. E. Herbert, 6528 Chester avenue, Philadelphia. General alterations. Contract awarded to George Adams, 5905 Chester avenue, Philadelphia.

**Residence (add.),** 218 Lemonte street, Philadelphia, \$2,000. Architect, private plans. Owner, Joseph Geiss, on premises. Brick, 2 stories add., 13½x13½ feet, slag roof, pine floors. Contract awarded to Eugene M. Malbo, 1027 West Indiana avenue.

**Residence and Restaurant (alts. and add.),** 5935 Chestnut street, Philadelphia, \$9,000. Owner, Louis Zucchi, 208 North Sixty-third street, Philadelphia. Brick, 2 stories add., 18x18 feet, slag roof, general alterations. Contract awarded to John H. Hutt, 5919 Spruce street, Philadelphia.

## Pennsylvania Construction News

**Residence (alts. to Church),** Royersford, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sacred Heart Parish, care of Rev. Charles L. McCarron, Royersford, Pa. General alterations. Preliminary plans in progress.

**City Hall,** Pottstown, Pa. Engineer, Bradford Stetson, 1014 Bellevue avenue, Pottstown, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owners, Borough of Pottstown, Morris Seasholtz, Pottstown, Pa. Brick, steel, reinforced concrete, 2 stories, 64x52 feet, slag roof, terrazzo and composition floors, hollow tile partitions, steam heat, metal lath, tile and marble work, bond, iron stairs, ornamental iron work, dampproofing, architectural terra cotta (electric wiring reserved). Will be ready for bids in about two weeks.

**Residence,** Collingdale, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, Louis Blase, Collingdale, Pa. Frame

and stucco, 2½ stories, 26x33 feet, shingle roof, electric light, hardwood and pine floors, hot water heat. Owner will take sub-bids.

**Hospital,** Basin and Powell streets, Norristown, Pa. Architect, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owners, Montgomery Hospital, Norristown, Pa. Brick, stone, steel, concrete, 2 stories and basement 42x72 feet, asphalt shingle roof, cement floors, marble work. Architect taking bids on general contract September 28th.

**Residence,** near Leesport, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Carrie Whitner Rick, Reading, Pa. Stone, 2½ stories, 34x110 feet, slate roof, hardwood floors, electric light, tile and marble work. John Rick, care of Whitner Co., 438 Penn street, Reading, Pa., taking bids due September 29th.

**Residence,** South Temple, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, LeRoy High, 1140 Perkiomen avenue, Reading, Pa. Brick and stone, 2½ stories, 33x38 feet, asbestos shingle roof, hardwood floors, electric light. Architect taking bids due as soon as possible.

**Stores and Apartments,** 10 North Sixth street, Reading, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owner, H. G. Lewis, 349 North Tenth street, Reading, Pa. Brick, 3 stories, 14x45 feet tin roof, pine floors, electric light, plate glass, tile work. Owner will build.

**School Building,** Montgomeryville, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Montgomery Township School District, C. Howard Knapp, North Wales, R. D., Pa. Brick or stone, 1 story, 72x94 feet (heating, lighting, plumbing reserved), slate or shingle roof, pine and cement floors. Owners taking bids due October 10th.

**Liberty High School Open Air Garden Theatre,** Loudon street, between Laurel and Ely avenue, Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Directors, School District of Bethlehem, F. J. Wilt, secretary. Low bidders: F. H. Bent, Bethlehem, Pa., \$34,850; Charles McCaul Co., 1713 Sansom street, Philadelphia, \$46,475. Electric, Charles McCaul Co., 1713 Sansom street, Philadelphia, \$14,754; Greenwood Engr. Co., 3314 Lancaster avenue, Philadelphia, \$14,852.

**Garage,** Highland Park, Pa. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owners, Doll & Garrison, Highland Park, Pa. Frame and stucco, 1½ stories, 20x30 feet, gas radiation heat, electric light, cement floors, slate roof. Plans completed. Architect ready for bids.

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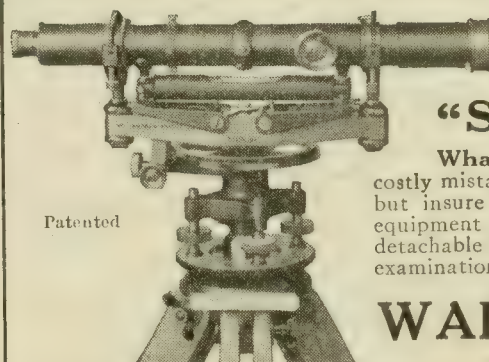
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**Garage**, Highland Park, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, Howard M. Bramhall, Highland Park, Pa. Frame and stucco, 1½ stories, 20x20 feet, gas radiation heat, slate roof, electric light, cement work. Plans in progress. Architect will take bids in one week.

**Parochial School**, Chester, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Robert's Roman Catholic Church, Rev. R. J. Thompson, Chester, Pa. Stone, 3 stories, 65x160 feet (16 class rooms and gym), slate roof, electric light, steam heat, auditorium, 1 story, 40x117 feet. Architect taking bids due October 4th, 10 A. M.

## Pennsylvania Contracts Awarded

**Dormitory Building**, Villa Nova, Pa., \$300,000. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, Villa Nova College, Villa Nova, Pa. Reinforced concrete, stone, cut stone, 4 stories and basement, 111x30 feet, wing 30x70 feet, slate roof, electric light, metal lath, metal sash, oak, pine and composition and linoleum floors, plumbing, metal partitions, iron work, bond, ash house and sieves. Contract awarded to K. C. Ballinger Co., 925 Walnut street, Philadelphia.

**Boiler House**, Bristol, Pa. Engineer, Charles A. Blotchev, Drexel Building, Philadelphia. Owners, Rohn & Hass, care of architect. Brick and steel, 1 story, 67x50 feet, slag roof, concrete floors, roof ventilators, metal window guards, rolled steel sash, iron work. Contract awarded H. E. Batton, 1713 Sansom street, Philadelphia.

**Rectory (add.)**, Ridley Park, Pa. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Madeline's Roman Catholic Church, Ridley Park, Pa. Porch additions and enclosure, pine floors, cement work. Contract awarded John Merchadante, Chester, Pa.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Berks County, Route 149, Wyomissing and West Reading Boroughs. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Ambler-Davis Co., Harrison Building, Philadelphia, \$71,070.

**High School**, Ridgway, Pa. Architects, Maurice E. Kressley & Co., 13 North Fourth street, Harrisburg, Pa. Owners, Board of Education of Ridgway, A. L. Bell, president, Ridgway, Pa. Brick and hollow tile, 2 stories and basement, 152x61 feet (heating, plumbing and electric work reserved), slag roof. Contract awarded to Hyde-Murphy Co., Ridgway, Pa.

## New Jersey Construction News

**College**, South Weymont avenue, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Bozarth, Egg Harbor, N. J. Frame and stucco, 2½ stories, 24x28 feet, asbestos shingle roof,

hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Apartment**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Bornstein, Frank & Uram, care of architect. Brick and steel, 3 stories, 36x72 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, skylights, roof ventilators. Plans in progress.

**Apartments (16)**, 17 South Boston avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, J. Jerome, on premises. Brick, 4 stories, 27x85 feet, slag roof, hardwood and pine floors, hot water heat, electric light, metal lath, tile work, waterproofing. Plans in progress.

**Residence**, Margate City, N. J. Architects, Achmidt & Dobbin, Segal Building, Atlantic City, N. J. Owner, Dr. C. de T. Shivers, 121 South Illinois avenue, Atlantic City. Hollow tile, stucco, 2½ stories, 34x44 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence**, near Atlantic City, N. J. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Thomas S. Wiltbank, 3216 Baring street, Philadelphia. Concrete blocks, 2 stories, 34x60 feet, rubberoid roof, hot water heat, electric light, tile work, plumbing, pine floors. Plans in progress. Owner will take bids in one week.

**School**, Hammonton, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Hammonton School Board, W. R. Selley, secretary, Hammonton, N. J. Fireproof, 3 stories, 32 rooms, auditorium and gymnasium, slag roof, hardwood floors (heating, plumbing and electric work reserved), metal lath, tile and marble work, rolled steel sash and skylights, fire doors, safety treads, roof ventilators, waterproofing, dampproofing, iron stairs, ornamental iron work. Sketches in progress.

**Bungalows (4)**, National Park, N. J. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owners, P. A. Pillarella and Ralph Gangio, National Park, N. J. Frame and stucco, 1½ stories, 26x36 feet, pipeless heating, electric light, shingle roof, pine floors. Plans completed. Owner will build.

**Warehouse and Office**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, American Oil & Supply Co., care of architect. Brick and steel, 2 stories, 22x200 feet, slag roof, concrete floors, hollow tile, roof ventilators, electric lighting, metal lath, hollow metal sash and skylights, hollow metal doors, floor hardener. Architect ready for bids.

**School**, Northfield, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Northfield School Board, C. Kroritz, Northfield, N. J. Brick, 1 story, 100x120 feet, slag roof, pine floors, hollow tile, safety treads, waterproofing dampproofing, electric lighting, metal lath, tile work, skylights. Owners taking bids.

**Duplex House**, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Carl Adams, Pleasantville, N. J. Frame, 2 stories, 24x47 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owner will build.

**Church**, Tenth and Wesley avenue, Ocean City, N. J. Architect, Joseph Van G. Hoffecker, 803 Eighth street, Ocean City. Owners, First Baptist Church, Rev. M. G. Buck, Ocean City. Brick and steel. Architect taking bids due October 27th at noon. Deposit of \$10.00 required (refunded).

**Residence (alts. and add.)**, New Jersey avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owners, Grossman Hotel, Mr.

Grossman, Sr., on premises. Frame and stucco, 5 stories and basement, 177x75 feet, slag roof, parquet flooring, heating extension, electric lighting, tile work, roof ventilators. Max Dolinky, New Jersey and Oriental avenues, Atlantic City, N. J., will take sub-bids.

**Store and Apartment**, Ocean City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, 2 stories, 28x50 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work. Samuel Dolinsky, 2 North Vermont avenue, Atlantic City, N. J., will take sub-bids.

**Store**, 2500 Federal street, Camden, N. J. Architect, A. B. Gill, Law Building, Camden, N. J. Owner, Louis Kutlikoff, 2507 Federal street, Camden, N. J. Brick, 2 stories, 40x90 feet, slag roof, pine floors, hot water heat, electric light, tile work, roof ventilators, skylights, Sheetrock, plate glass. Owner taking bids.

**Public School Building**, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education of Woodbury, High School Building, South Broad street, Woodbury, N. J. Brick, cast stone, cut stone, reinforced concrete and steel, 3 stories and basement, 181x64 feet and 174x74 feet (heating, plumbing, electric reserved) (ventilating separate), cement and maple floors, hollow tile, floor hardener, bond, hollow metal and kalamein doors, hollow metal skylights, metal lath. Deposit, \$20.00. Refund, \$20.00. Owners taking bids (new) due October 4th, 8 P. M. (Standard time).

**Y. W. C. A. Building**, Hanover street, Trenton, N. J. Architect, William Thompson, 342 Madison avenue, New York City. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Y. W. C. A., Mrs. Edward Dunham, 365 West State street, Trenton, N. J. Steel, concrete and brick, 4 stories, 54x155 feet, 72x55 feet, slag roof, hardwood and concrete floors, hollow tile, elevators, roof ventilators, waterproofing and dampproofing (plumbing, heating and electric work reserved), tile and marble work, metal lath, rolled steel sash, skylights, kalamein doors, iron stairs, ornamental iron work. Architects taking bids due October 9th.

**New Industrial School**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Board of Education, H. H. Young, secretary, Atlantic City. Brick, 3 stories, 125x43 feet, slag roof, yellow pine floors. All bids returned unopened. Will readvertise.

## New Jersey Contracts Awarded

**Women's College**, New Brunswick, N. J., \$199,935. Architects, Department of Institutions and Agencies, Trenton, N. J. Owners, State of New Jersey, care of architects. Brick, steel, concrete, hollow tile, 2 stories, 158x78 feet, slate roof. Contract awarded to Charles J. Smith Co., 202 Academy street, Trenton, N. J.

**Residences (9)**, North Texas avenue, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, J. Tindera, care of architect. Brick, 2 stories, 15x27 feet, slag roof, pine floors, electric lighting. Contract awarded to Abacus Const. Co., 2100 Atlantic avenue, Atlantic City, N. J.

**Office Building**, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Otis Elevator Co., 112 South Sixteenth street, Philadelphia. Brick, 1 story, 25x100 feet, slag roof, hardwood floors, electric lighting, terra cotta. Contract awarded to Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

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**Water Tanks (3)**, Camden Terminal, Wilson street, Camden, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. (1) 50,000-gallon capacity on tower 55 feet high, (2) 75,000-gallon capacity 24 feet high. Contract awarded to Chicago Bridge & Iron Co., Chicago, Ill.

## Delaware

### Construction News

**Garage**, New Castle, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owner, Philip Laird, The Strand, New Castle, Del. Brick, 2 stories, 25x30 feet, slate roof, concrete floors, steam heat, electric light. Plans in progress.

**Parish House (alts. and add.)**, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Presbyterian Church, care of architect. Stone, 2½ stories, 44x100 feet, hot water heat, electric light, tile roof, hardwood floors, tile and marble work. Revised plans in progress.

**Road Work**, Delaware. Owners, Delaware State Highway Department, Dover, Del. Low bidders on road work opened September 19th.

Contract No. CK-18, through Clayton, 0.622 miles. Broadcreek Contg. Co. of Maryland, Elkton, Md., \$20,660.

Contract No. CS-26, Bridgeville-Clarks Cross Roads, 2.16 miles. Highway Eng. & Const. Co., Selbyville, Del., \$61,231.

Contract No. CS-29, through Greenwood, 1 mile. Highway Eng. & Const. Co., Selbyville, Del., \$43,643.25.

**Factory**, Twelfth and Dure streets, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Electric Hose & Rubber Co., Wilmington, Del. Structural steel, reinforced concrete, brick, 2 stories, slag roof, concrete, hollow tile, electric work, rolled steel sash. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

## Miscellaneous

### Construction News

**Hospital Building**, Maggie, W. Va. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, State Board of Control, W. Va. Brick, Indiana limestone, concrete, steel, granite, 3 stories and basement, 217x46 feet, slag roof, cement, composition, tile floors, elevators, metal window guards, terra cotta, tile, iron work and stairs, kalamein doors (heating and ventilating plant, plumbing and electric work reserved). Owners taking bids due November 30th. Deposit, \$25.00. Refund, \$25.00, upon receipt of bid with bond.

**Parish House**, Salisbury, Md. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Peter's Episcopal Church, Salisbury, Md. Brick, 1 story and basement, 83x36 feet, slate and slag roof, oak and pine floors, bond, tile work, metal lath, electric work, steam heat. Architect taking bids due September 28th.

(Continued from Page 612)

Nowhere, either in Europe or in America has co-operative ownership been applied in a larger way than by the Queensboro Corporation at Jackson Heights. Here, profiting by mistakes made in the past in the form of organization and benefiting to some extent by the solution of similar problems in other cities, the

Jackson Heights Plan of Tenant-Ownership was evolved.

This plan, although worked out independently by the Queensboro Corporation has many points of similarity with what is known in England as Co-Partnership Tenant Plan. In England industrial villages were built by funds subscribed by workers and others; these workers obtained stock for their contribution and were privileged to rent buildings in the development. If a change of employment forced them to move, they could leave the premises and still retain a return upon their investment in the stock which they owned in the co-partnership enterprises.

In this way the loss and sacrifice frequently involved in the ownership of an individual home were avoided, and at the same time, the freedom of action of the worker was not interfered with.

Any such plan as the Jackson Heights Plan involves the organization of a company to take title to a piece of property upon which there is erected an apartment building. The title to the house and lot resides in the company. Its stock is sold *pro rata* to the persons who occupy the building. The occupants lease their apartments from the company in which they are stockholders and thus become actually their own landlords and pay rent to themselves.

No limitation is placed on the sale of the stock, but the lease which is a yearly lease renewable at the option of the tenant indefinitely is a personal lease with the tenant and cannot be assigned without consent. This is considered to be one of the strong features of the Jackson Heights Plan in that it prevents deterioration in the tenancy of the building by reason of transfers to undesirable parties. The value of the stock which rests largely in the lease is therefore effectively controlled.

Whenever the fee has been passed in unrestricted real estate developments, it has usually been found impossible to restrict the transfers of this fee and sooner or later there is a tendency toward deterioration in the class of people living in the section. It is believed that for tenant owners the Jackson Heights Plan protects so far as is humanly possible from this deteriorating tendency.

The management of the building is in

the hands of an experienced manager. At Jackson Heights the Queensboro Corporation manages all of the co-operatively owned buildings and is therefore enabled to effect economies by large scale purchases.

The tenant-owners merely pay in their monthly contributions toward upkeep, etc., and as directors of the Corporation meet to receive the reports of their agents at proper intervals.

But there is another element to be borne in mind in this discussion, and that is the structural element I have already mentioned. The new conditions—the uneconomic ownership of private single residences and the economic ownership of apartments by tenants have developed these new structural aspects of the apartment home. These new conditions have brought about a new architectural point of view and architectural accomplishment.

### *The Other Feature—Interior Gardens and New Structural Features*

The architect of city homes has an important duty to perform in improving along scientific lines the design and construction of multiple family houses so as to provide the healthful, wholesome atmosphere of an individual house with its sunlight privacy and pride of ownership combined with the convenience, efficiency and economy possible only in a multiple family house.

Summed up, experience at Jackson Heights has shown the following to be the essentials of good planning of multiple family houses:

1st. Comprehensive block development rather than unsymmetrical and irregular height and type of building which has heretofore prevailed.

2nd. Maximum of sunlight and ventilation insured by the erection of buildings two rooms deep on the four sides of the block with an interior garden; the interior garden taking in the entire length of the block and being a substitute for the old type of development with its individual back yards, fences, clothes lines and other unsightly features. This immediately brings down the area of the building from 70%—the maximum permitted by the N. Y. Tenement House Law to as low as 30% to 35% of the lot built up. Such gardens are at Jackson Heights, 500 feet long by 70 to 100

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feet in width, and are created for the enjoyment of all the tenants in the block. Noted architects have planned these gardens. A man occupying a five, six or seven-room apartment enjoys a garden which formerly was only within the means of a millionaire. To insure the permanency of these gardens, the land is dedicated by the building company by proper deed for the benefit of the adjacent owners and its use restricted by covenants running with the land.

3rd. Buildings are set back from the lot line in order to provide distance between buildings and an opportunity for lawns and planting in front of the house.

4th. The building of detached or free standing apartment buildings which give an opportunity for many corner rooms and consequent cross ventilation.

5th. The silhouette produced through a picturesque arrangement of roofs and dormers, towers and other features adds a great deal to the attractiveness of the new type of apartment.

At Jackson Heights in the Chateau group, for instance, the roof is of medieval French Chateau type of vari-colored slate.

The Cambridge Court has cornice and balustrade of the Georgian type of building, with slate roof and dormer of the Colonial architecture of the 18th Century. The inspiration was to some extent derived from the Freshmen Dormitories of Harvard University along the Charles River, which are a noted American application of the Georgian style. In another group the Italian effect is shown. In yet another, the English.

The movement toward co-operatively owned apartments of attractive and convenient design is, of course, not confined to New York. While it has taken hold to a large extent in New York, it has been tried in other cities in the United States, largely because of the success which the plan has met with at Jackson Heights, where over 1100 tenant-owners are now living in over 100 apartment buildings.

The plans of tenant-ownership applied elsewhere in New York and in other cities throughout the country vary in detail from that described as The Jackson Heights Plan of Tenant-Ownership, but in essence are the same. The transfer of the lease is controlled by the tenant-owner corporation so as to protect the other people living in the building.

In Europe, tenant-ownership is of older standing than in this country. The growth of the plan has been fast in Paris for the same reasons as have caused its growth in New York—high rents, scarcity of accommodations and the feeling on the part of the former renter that he is spending too much for rent with little to show for it.

Several large apartment buildings oc-

cupying an entire block are being erected in Paris in the vicinity of the Champ de Mars by the Societe Anonyme Franco-Americaine, in which the artistic treatment of the French is being combined with the practical comforts of the American apartment. This tenant ownership movement has also spread to Germany and to the Scandinavian countries, where many handsome apartments are co-operatively owned. This movement may be said to combine the comfort, ease and economy of apartment living with the freedom and sense of independence which goes with ownership. In this respect it is an internationally important movement in that the best citizen is the man who owns his own home. At the same time it is in keeping with the trend of the times which compels people to give consideration to economy in their living.

The facts I have given to you, gentlemen, are significant. Both in the United States and in foreign countries the spread of tenant-owned apartments is the best proof of my contention that they will help solve the housing problem.

The new features in apartment buildings must solve this grave situation confronting the more densely populated centers of the world. With improved buildings, such as I have outlined to you—with co-operative tenant-owned apartments—one of the greatest problems which America is facing today will find its solution.

## PAINT AS AN AID TO RENTING AND SELLING

### *Color Combinations for Exteriors*

BY ALBERT BRACE

A famous pioneer merchandiser is said to have advised his clerks not to talk but to show the goods! This was many years ago but go today into the palatial department store which still bears his name and you will find that policy still carried out to the letter. The clerks are unobtrusive alike in dress, manner and conversation; the fixtures, lighting and interior decoration offer a background that at once enhances your own sense of well being and sets off the most humble necktie or most gorgeous bit of jewelry to its maximum effectiveness.

The net result is that without one word being said you *want* to buy though you may have entered on the most idle of time-killing shopping ventures—almost literally the only remedy, if you should save money, is to keep moving. Thousands upon thousands of people visit this store from all over the Middle West and practically the only sales effort exerted is that employed by their own eyes. The people behind the counter, scarcely uttering a word, display everything however trifling in just the right setting and make the change, that's all.

Is there not a sermon in this policy worthy of consideration by the builder selling or renting a house? If he adopts it, then the very first step is to see that his offering is given just that quality of external appearance which will permit the prospect's eye to do the work rather than a flow of hasty sales talk on his part. True, shrubbery, lawn and general background will enter in, but if the house itself is not of an appropriate color or shows poor taste in the selection of a combination, the rest will be very largely set at naught.

Leaving style out of the question we are as a nation entirely too prone to paint our houses as *we* like them, entirely without regard to the effect on neighboring color schemes and often in defiance even of natural surroundings. This is not to say that we should all take a course in the fine arts and then in landscaping to boot, but the observance of a few proprieties in external painting will make life pleasant for us all instead of good enough for just one. To be sure this is a free country and one may indulge consciously or unconsciously in exotic tastes, but while the result may be all right for the one who toasts his toes inside, how about the families whose porches open upon a vision of pink and white, green and orange or worse!

This parenthial lecture is intended rather for the private than for the professional builder—the latter as a class are too experienced in what is right to give any such pain to those about. Nevertheless an eye for color is not ingrained in us all and since more than one prospective purchaser or renter must be considered, a few remarks on the fundamentals of pleasing as many as possible may not come amiss.

Assuming that the question of painting a new house or group of houses arises in a case where there are already homes adjoining, the first consideration is that of the color scheme predominating among the latter. If a decision is made regardless it is more than likely, unless the houses are widely separated, that the new dwelling will give a radically different effect from that originally pictured in preparing the specifications.

One reason lies in the fact that a light color placed next to a dark color makes the former appear lighter and the latter darker. Similarly a red house adjoining a green house intensifies the red color of the first and the greenishness of the second. At a distance these intensifications are not so observable but the closer one approaches the greater the effect becomes. All in all it is dangerous to employ a given color merely because a house observed somewhere else looked well under such treatment.

Aside from environment there are in the question of proper color, the factors



of light and time of year and in these respects considerable may have to be anticipated. An all-white house may look bleak and cheerless on a plot devoid of grass, shrubbery or leafy trees—with these in abundance the effect will change to one of snug cosiness. Most houses are flattered by summer foliage; the test comes in winter when there is little to set off natural beauty or hide inherent shortcomings. The English style plaster houses with exposed beams stained in brown are a good example of all year 'round effectiveness.

Color preference in individuals is as it should be, a matter of personal taste, influenced according to age, temperament, sex, race, education and environment, but there are certain general laws and pleasant effects based on these that cost no more to attain than unpleasant ones. Color is a medium whereby a house can be made to appear larger or smaller, lighter or darker, more cheerful or formal—all important when it comes to selling.

To illustrate, if you would make a narrow tall house appear lower and wider, use a light color below any natural dividing line and a darker, heavier color above, including the roof. To make a house appear higher, use one color only from foundation to roof and that a light one. The trim in such a case should be a still lighter color and the roof given a medium shade. By painting a house in light colors, avoiding strong contrasts between body, trim and roof, a house may be given a larger appearance.

In general it may be said that a darker trimming color makes a house look smaller; conversely a trimming color lighter in shade than the body color makes it appear larger. Blue and yellow expand, red contracts, tan, gray and pink have an enlarging effect. Light shades give cheerfulness while dark ones lend dignity and sedateness. The old-fashioned white with green blinds is always good if the grounds are reasonably spacious and filled with plenty of trees and shrubbery. Failing these, light gray, Colonial yellow, cream, ivory or Bedford stone will serve.

As a reaction from the gingerbread patchwork peculiar to the homes of the eighties and nineties the modern keynote is simplicity. Gone are the sombre greens and grays, the purposeless ornaments, turrets and gables, the pillars done in one color at the base and another at the cap. If there is any danger now it is in the overworking of white which increasingly threatens to extend to houses the styles or surroundings of which make such a treatment utterly inappropriate. In general it will be found safe to adhere to some such general plan as that which follows:

#### *Large Colonial*

Body—White, light yellow or buff. Columns and trim—White. Blinds—

Green or bronze green. Roof—Natural or moss green.

#### *Dutch Colonial and Gambrel*

Body—White. Trim—White. Blinds—Green, turquoise or robin's egg blue. Roof—Dull green, dull blue, natural or multi-colored.

#### *Rustic Shingled*

Body—Brown, green or gray or dark red. Blinds and Roof—Same, in deeper or lighter, harmonizing shades.

#### *Plain Town*

Body—Light brown or gray. Trim, Blinds and Roof—Dark brown or gray.

#### *Clapboard and Shingle*

Clapboard (lower half) and Shingle (upper)—Light or dark olive and dull red, cream and brown, gray and dark green or dull red.

#### *Bungalow*

Body and Roof—Browns and dark greens. Trim—Same, or white or ivory.

#### *Brick*

Body—Red or buff. Trim and Blinds—White or apple green. Roof—Dark.

#### *Cement or Stucco*

Body—Gray, white or yellow. Trim—White or brown. Blinds—Turquoise blue or green. Roof—Red or dull green.

#### *Cottage*

Body—White (or silver gray.) Trim—White (or lead color). Roof—Natural shingles (or stained dark gray or brown).

The importance of considering surroundings in deciding on the color treatment of a home is difficult to over-emphasize, and a few basic suggestions along this line may be in order. As has been said, white requires not only an appropriate style but plenty of trees and shrubbery to soften the formal effect and give a home-like look. Even when the leaves have gone the grays and browns of bare trees will perform the same service provided there are plenty of them. Black, of course, has no place at all except in lining sashes on a gray, blue or green body and for certain metal work.

Because it is nature's own color and omnipresent a large part of the year, green on bodies is a poor choice except in very dull tones on shingles or as a paint on houses crowded rather closely together on the outskirts of cities. It cannot vie with natural foliage and serves as an unintentional obscuring or camouflaging agent. Extremes are to be avoided and it represents the other extreme from lurid combinations of pink and white, blue and brown, etc.

If a very unobtrusive effect is desired that shall still be within the realm of good taste, dull browns, grays or yellows are best with trimmings in darker or lighter shades of the same color. For a house located on a plain without much relieving foliage or shrubbery, dark red, grays and browns are suitable without strong contrasts in trim. Outbuildings will tend

to relieve any possibility of monotony.

Such outbuildings, garages, barns, stables, sheds, greenhouses, play houses and the like should be painted in harmony with the house. Painting them in odd colors would be as unpleasing in effect as a dining room furnished with an Italian Renaissance table, Jacobean, Queen Anne and Louis XIV chairs, a Sheraton server and an Adam sideboard. A patch work quilt is striking; what is wanted from out-buildings is an unobtrusiveness that adds to the general scheme of things.

The roof coloring of a building is another important consideration. When slate was in its prime there was a depressing monotony that accorded well with the old-fashioned striving for dignity. The great number of new roofings have brought with them much variety in the way of coloring, the color being an integral part of the fabric or metal. In the old days many of these would have been regarded as altogether too vivid but the discovery was made that combinations of individually strong blues, greens, browns and reds give the same highly pleasing effect as an autumn landscape. Such autumn effects are, of course, most suitable on plain bodies like cement, rough plaster, etc.

In days now gone by it was apparently considered little short of heretical to paint window blinds anything but green, usually the rich "shutter green" of the manufacturer's prepared paint color card. Nowadays with the liberalism which permeates post-war America one can see in any representative suburb, the conventional green contending with at least an equal number of blues, blue greens, apple greens, buffs, grays, whites and even creams. Other trim, including sash, downspouts and grill work often follows suit especially on stucco, concrete or brick houses. Porch floors are usually confined to utilitarian tones of gray and brown, the steps and risers to match or the latter painted white or a light harmonizing shade. Porch ceilings unless natural wood varnished should be painted light gray, green or sky blue.

Getting back to the house as a whole there is a question as to color which is not always thoroughly appreciated. The relative durability of colors is a matter rather of pigment values than of artistic choice and is too technical a subject for extended discussion here; present purposes will be amply met by the most outstanding comparisons. Viewed from the practical angle, white is about the least durable of paint treatments, a house so protected being likely to require doing over in as little as three years.

The same house, done in a tint, that is white with a small percentage of color added, will not require repainting perhaps for another two or three years. Forgetting artistic considerations for the mo-



ment it may be said that blacks, browns and reds are most the durable whereas bright greens, blues and cold yellows are most susceptible to deterioration from sun and rain. Excellent compromises are the shades which in general make up the mixed paint color cards. These tints, aside from offering adequate variety, represent the pick of those light shades which tend to reflect the rays of the sun rather than absorb them as do the dark reds and blues and grays. Thus they give not only longer paint protection but assure a cooler house during the hot summer months.—*National Builder*.

### A FEW USEFUL NOTES ON FINISHING INTERIOR WOODWORK

BY A. ASHMUN KELLY

If a room is to be finished in white pine, and the wood is to be left in its natural color, which is the best way, care should be taken to prevent any oil or grease getting on it, nor should any of the so-called fillers be used, as they also stain the wood, and, as far as white pine is concerned, do no good.

The original freshness and beauty of this wood can only be preserved by first finishing the woodwork with a plane very fine set, and by avoiding the least plane marks. Then when the wood has been properly prepared and cleaned, the smoothing having been done without using an abrasive material, like sandpaper, it should have a coat of pure white shellac, the alcoholic solution.

After this has dried it should be rubbed down, sandpaper of fine texture being used, and be brushed off clean of dust, when it should have two or more coats of light colored copal varnish. These coats should be rubbed down smooth, finishing with an unrubbed coat of light copal varnish.

The more varnish you apply the greater the apparent depth of effect, but at the same time the color is increasing, hence the fewer coats of varnish the lighter the finish. It is the same when treating maple wood. A cheaper finish would do with just two coats of white shellac, both coats to be sandpapered smooth.

White pine thus finished will afford a very handsome effect, and while it will not preserve its first clear light color, time will not fail to enhance its attractiveness by giving it a mellow glow that no hand-work can ever supply.

To secure a light finish on any light colored wood it is advised to apply a coat of shellac first of all, for this will preserve the natural color of the wood better than anything else, besides making a foundation for the following coats of varnish.

White or bleached shellac should, of

course, be used, the dark or orange colored shellac being unsuitable. It does so well in giving a foundation that you do not need to apply any other filler, that known as liquid filler being generally used for wood of this character.

Close-grained woods, like white and yellow pine, holly and maple, do not need filling, save as shellac fills it. Still, it is customary for some finishes to paste-fill such woods, the idea being that there are soft parts in all such woods, or certainly in pine, and hence the filler fills the sappy or soft places, and levels them up with the surrounding harder or firmer parts. This is very true, too.

Some object to using shellac on any bare wood, except it to be hard pine, they claiming that if oil varnish be used on it the varnish will scale off. Shellac is the hardest gum varnish we have, and oil varnish does not take too kindly to it; yet with care, such as sandpapering to form a tooth for the oil varnish, a good result may be expected.

However, in order to maintain a clear light color in a white wood there is nothing that can take the place of white shellac. There is no oil in it, and, of course, no grease. It dries out leaving simply the original purified shellac. Also, it dries quickly, thus removing it from the danger of injury that is always present with undry finishes. And its surface is so hard that the oil or turpentine from the oil varnish has no chance for penetrating and injuring the finish.

Those country contracting painters who have been used to finishing houses in white pine or like soft woods, have some difficulty in forming a proper estimate of the labor required in finishing hardwoods.

It is safe to say that the cost of doing a room in cherry, black birch or white ash is easily double what it is for doing a white pine finish. Black ash or elm finish takes about double the time to do that is required for white pine finish, done with paint, or even with varnish finish. Oak, red and white, costs rather more to finish than cherry or black birch.

—*Building Age*.

### TERRAZZO FLOORS

A terrazzo floor finish is a surface of irregular marble or granite fragments embedded in cement mortar and ground to a smooth even surface.

A terrazzo finish should preferably be two inches thick. Usually reinforcement is not required. The terrazzo should be laid, if possible, before the concrete floor has hardened. If the concrete foundation slab is allowed to harden before the finish is placed, it should be left somewhat rough, and when ready to receive the finish it should be carefully cleaned,

drenched with water and painted with a grout of neat cement of creamy consistency. Immediately, thereafter, the binder course of the terrazzo finish should be placed, making it 1 inch to 1¼ inches thick. This binder or "filler" course should preferably be a 1:3 cement-sand-mortar. The sand should be clean and well graded. This binder course should be tamped into place and screeded to an even surface.

The placing of the finish is sometimes delayed, but better results are obtained if it follows immediately after the binder course is completed. The finish consists of a mixture of portland cement and marble, or stone chips or screenings, to which a little sand may be added. Some architects specify definite proportions of cement and chips, such as 1:3, while others merely specify that enough cement be used to fill the interstices. This mixture is spread evenly to the proper thickness and rolled; then additional marble chips either of the same size or a little are spread over the surface and rolled in. Enough chips should be used so that they will cover at least 85 per cent. of the finished surface.

After the finish course has hardened somewhat (often at the end of twenty-four hours), but before it gets too hard, it should be ground to a smooth, even surface by a rotary rubbing machine, or by hand, using carborundum brick.

By using mineral coloring material and chips of different colors, shapes and sizes, an infinite variety of color and mosaic effects may be obtained. Borders and patterns of contrasting colors can readily be worked out by placing boards in the proper position when the main body of the floor is laid and later filling in the vacant places thus provided with a mixture of the desired color. Joints that are hardly noticeable can thus be secured. Although much larger areas have been laid successfully, it is best to lay terrazzo blocks not over ten feet square in order to provide properly for expansion and construction.—*Concrete Floors*.

**Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!**

**The impractical dreamers are not the architects, but the clients themselves, as a rule.**



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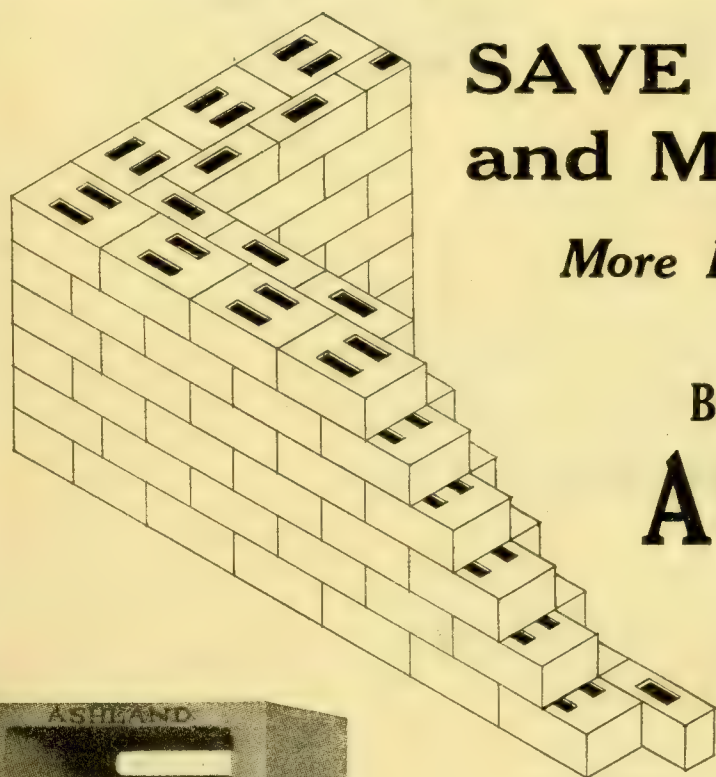
# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 40  
October 3, 1923

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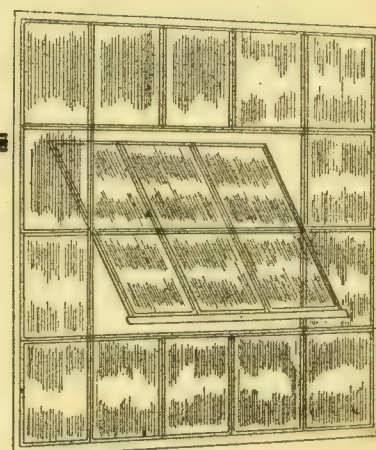
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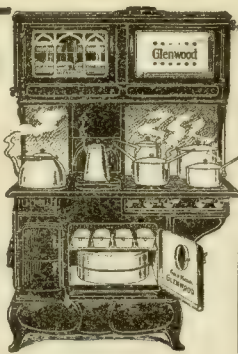


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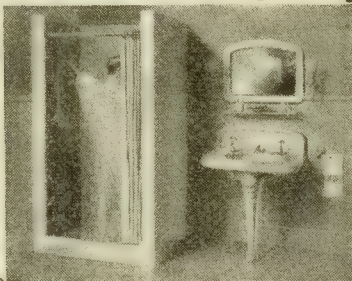
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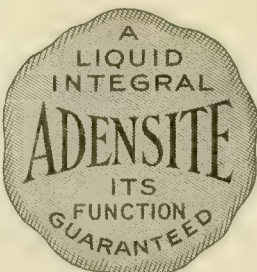
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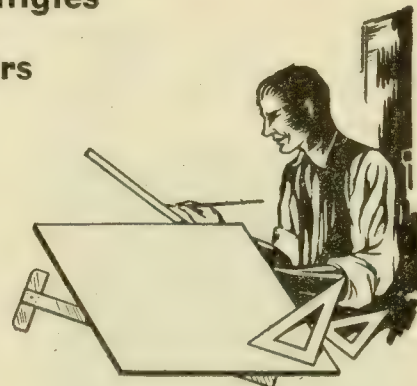
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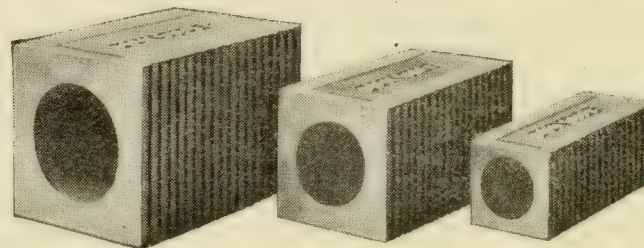


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Devoted to the Advancement of American Architecture, Structural  
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VOLUME XXXVIII  
Number 40

PHILADELPHIA  
October 3, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

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## As The Editor Sees It



### THE PROPOSED IMMIGRATION LAW

*Bill To Be Pushed at Next Session Is  
Negative and Ignores Many Social  
And Economic Requirements*

BY JAMES A. EMERY

*Counsel, National Association of Manu-  
facturers*

The need of the country is a constructive, selective immigration policy which undertakes to affirmatively meet the economic and social problem involved, rather than a proposal of negation, which merely multiplies and intensifies our existing difficulties.

Mr. Johnson, of Washington, chairman of the Committee on Immigration and Naturalization of the House, proposes to secure enactment of the identical measure reported to the House February 15, 1923. The Johnson bill, with slight modification, is the chairman's original proposal, introduced in the Sixty-seventh Congress.

#### *Terms of Johnson Bill*

Mr. Johnson's proposal is to admit a base quota of 400 from each admissible country, plus 2 per cent. of the number of foreign born individuals of the various nationalities resident in the United States, as determined by the census of 1890. The bill excludes all persons not eligible to citizenship (Takao Ozawa v. U. S.—U. S. Ad Op. Dec. 1, 1923, page 11) unless admissible as non-quota immigrants. The present 3 per cent. act permits a gross immigration of 357,803. The

Johnson bill would cut this to 168,837, which, plus the total base quota of 400 to each nationality, adds 17,600, or an admissible total of 186,437.

The selection of the 1890 instead of 1910 or 1900 census is intended to cut the immigration from eastern or southern Europe. Thus, for example, the Italian quota is 42,057 under the present 3 per cent. act predicated upon the 1910 census. It would become, under the 2 per cent. 1890 census, 3,912. But the Johnson proposal likewise reduces even the quotas from what are accepted as the root stock of the United States. Thus the United Kingdom quota which was filled May 30, 1923, would be reduced from 77,342 to 62,458; Germany from 67,606 to 51,227; France from 5,729 to 3,914; the Netherlands from 3,607 to 1,637; Norway from 12,202 to 6,454; Sweden from 20,042 to 9,561.

The present act allows a maximum of 20 per cent. of the quota to be admitted each month. The Johnson bill would permit but 10 per cent. of the quota each month.

The Johnson bill would permit the entrance of an otherwise admissible alien husband, wife, father, mother, unmarried minor child, unmarried minor brother or sister or unmarried orphan niece or nephew of a citizen of the United States outside the quota.

It would likewise permit the admission outside the quota of the alien husband wife or unmarried minor children

of an alien who has resided in the United States two years and been a declarant for citizenship at least one year.

The Johnson bill would require the issuance of a certificate by United States consular officers to each immigrant applying for the same, its verification under oath, and the answer therein to a series of questions substantially similar to those addressed to the immigrant on arrival at a United States port. No more such certificates are to be issued than is permitted by quota figures. A similar certificate may be applied for by relatives in the United States on behalf of alien persons otherwise admissible.

The quota limitations of the act do not apply, in addition to the blood relatives specified, to native born citizens of the countries of the North American Continent, the islands adjacent thereto, or to immigrants from quota countries who have resided continuously for at least five years immediately preceding application for admission to the United States in the countries of the North American Continent or to bona fide immigrant students over sixteen years of age seeking to enter the United States for the purpose of study at an accredited educational institution, or to any immigrant serving in the Army or Navy of the United States between April 6, 1917, and November 11, 1918, and honorably discharged.

The bill likewise recognizes as a non-quota immigrant one who is a "skilled laborer if labor of like kind unemployed

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cannot be found in this country," the determination of the application for such skilled labor having been made in each individual case by the Secretary of Labor, upon written application of an interested person. The last is the provision of the act of 1917. But the committee reports that so few skilled laborers have been admitted under the contract labor section that no statistical records have been kept, although many have been debarred as contract laborers because they had immigrated in response to letters from relatives offering them positions.

The Johnson bill would be a substitute for the present 3 per cent. act, but otherwise operate as an amendment to the so-called Burnett bill of 1917, our basic immigration statute.

#### *Objection to the Johnson Bill*

The provisions of the proposed bill defining the admissible blood relatives of naturalized citizens and declarants for citizenship, and providing for the issuance of consular certificates are decided administrative improvements upon the present law, but the proposal, in the light of experience under the operation of the present restrictive act, does not meet the more serious economic or social problems of immigration, but, on the contrary, rend them more acute.

At a time when, according to the declaration of the Secretary of Commerce, "we have recovered from an unemployment of five million to a surplus of five hundred thousand jobs, it is unwise to substantially prevent any re-enforcement of the native labor supply in the face of an existing and enlarging economic need."

The report of the Commissioner General of Immigration for the first fiscal year of the operation of the 3 per cent. act discloses a net deficit of 68,734 "laborers." While the figures are incomplete, the indications are that the net immigration of the second year, ending June 30, 1923, will show little net gain, if any.

The experience of the basic industries of railroad construction and of building construction have shown a continuing labor shortage since May 1. In the construction industry alone this has threatened a self-destructive increase of cost which necessitated the curtailment of delayed operations now estimated at a total need of substantially twelve billion dollars, with an annual requirement in excess of five billion dollars a year indirectly affecting the demand for consumable goods and services in all other industries. The labor demand in the building trades is intensified by the fact that from 1910 to 1920 (U. S. census 1920) there was an increase of fourteen millions in population, but a decrease during like period of 18 per cent. in the number of available brick and stone masons; 26.7 per cent. paper hangers; 19.8 per cent plasterers; 19.2 per cent. roofers and slaters;

9.1 percent. painters; 28.4 percent. building laborers. This represents a cumulative effect of labor apprentice restriction. The lessened number of building mechanics is accompanied, according to universal testimony, by a decreasing efficiency of individual performance, averaging conservatively 25 per cent., which adds proportionately to the increased wage cost. Authoritative, conservative estimates of delayed building construction and present requirements in fifty cities, including about one-fourth of the population, show that building can continue at 25 percent. above normal activity for ten years to meet the present deficit. The country is confronted with the alternative of going forward with construction that adds permanently to living costs or delaying the program to avoid the larger artificial portion of the present burden, threatening an injurious reaction. The enlarging immigration from western Europe, particularly the United Kingdom, is contributing a steady stream of building mechanics of which further decreases in immigration quotas would tend to deprive us.

The transformation of the national immigration policy, supplementing the native labor supply, from one of extreme liberality to prohibition or drastic restriction demands, in the public interest, a flexible administrative buffer to permit our industrial life to adapt itself to the change, without serious economic injury. The proposed bill is immigration prohibition under the guise of restriction.

The present demands of industry are stripping the farms of essential agricultural labor, in the South especially, where a serious negro emigration to the North threatens the primary crops and creates new social problems in the northern communities to which the negro comes.

The policy is purely negative and offers no answer to the social and economic requirements for better racial and occupational immigration selection, the registration, intelligent ascertainment of immigration requirements and opportunities by cooperation of the states and nation, the systematic instruction and naturalization of the alien, and his prompt deportation when displaying marked criminal tendencies or advocating or practicing political change by force or participation in or incitement of civil disorder.

Economically, the policy of the bill would tend to maintain an inadequate labor supply, resulting in a wage competition which, adding nothing to the volume of production, increases nominal wages while disproportionately enhancing prices and increasing the spread between the cost of industrial commodities and services and the buying power of agricultural products. It adds, therefore, to agrarian discontent by invidious comparisons between industrial wages and returns.—*The Constructor.*

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**Catholic High School**, Hunting Park avenue and Frankford avenue, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, Catholic Archdiocese of Philadelphia, care of D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Stone, steel and concrete. Plans in progress.

**George Clymer School (alts.)**, Thirteenth and Richfield streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. New toilet rooms, cement and concrete work, brick work, iron work, structural steel, slate roof, carpentry and mill work, plastering, painting and glazing. Owners taking bids due October 4th.

**Northern Liberty School**, Third and Green streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Sheet metal sash, composition roof, carpentry and mill work, brick work, elevator (hand), hardware, plastering, concrete work (plumbing, heating, electric separate bids). Owner taking bids due October 4th.

**Alterations**, 1708-14 Chestnut street, Philadelphia. Architect, private plans. Owners, Theo. Presser Co., on premises. Masonry, plastering, structural steel, ornamental iron work, marble and tile work, glazing, carpentry and mill work. Owners taking bids due October 4th.

**Stores (4), Apartment and Garage**, 211 West Cheltenham avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Brick, steel, stone, concrete, 3 stories, 80x90 feet, vapor heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal skylights, fire doors, bulks, ornamental iron work and stairs, terra cotta, roof ventilators, elevators, hardwood and composition floors, slag roof. Plans in progress.

**Residences (5), Store and Dwelling (1)**, Fifty-third and Westminster streets. Architect, W. L. Charr, 149 South Fourth street, Philadelphia. Owner, Henry Sandry, care of architect. Brick, 2 and 3 stories, 16x42 feet, demolition, hot water heat, electric light, tile work, hollow metal skylights, bond, metal bulks, metal lath, hardwood and pine floors,

slag roof. Plans in progress. Ready for bids in two weeks.

**Store and Apartments (3)**, 4241 Powelton avenue, Philadelphia. Architect, C. H. Wilson, 2028 Berks street, Philadelphia. Owner, H. C. Deberry, on premises. Brick, 3 stories, 75x40 feet, irregular, hot water heat, electric light, tile work, plate glass bulks, iron work, metal ceilings, cement work, hardwood floors, asphalt roof. Plans in progress.

**Double House**, Evergreen avenue, West of Germantown avenue, Philadelphia. Architect, Paul Livingston Boyd, 6943 Limekiln Pike, Philadelphia. Owner, Harry K. Schook, 143 West Graver's Lane, Chestnut Hill. Brick and stucco, 36x36 feet, hot water heat, electric light, tile bath rooms, slate roof, hardwood floors. Owner will take bids. Plans completed.

**Moving Picture Theatre**, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel and terra cotta, one story, 81x34 feet. Plans in progress.

**Store and Apartment (alts.)**, Northwest Corner Franklin and Columbia avenue, Philadelphia. Architect, A. Mueller, Ninth and Walnut streets, Philadelphia. Owner, name withheld. Brick, carpentry and mill work, hot water heat, electric light, plumbing, general alterations. Lowering floors. Plans in progress.

**Apartment and Offices (alts.)**, Twenty-first and Pine streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. Hector McNeal, 405 Liberty Building, Philadelphia. Brick and stone, 4 stories, 40x90 feet, general renovation, vapor heating, electric light, tile and marble work, skylights, iron work, elevators, hardwood and composition floors. Plans in progress.

**Building (alts. and add.)**, 1421-23 Columbia avenue, Philadelphia. Architect, private plans. Owners, Woolworth Co., Wilkes-Barre, Pa. General alterations. New front. Plans in progress.

**Garages (9), Stores (1), Apartment**, Southeast Corner Forty-seventh and Parrish streets, Philadelphia. Architect, C. M. Wilson, 2028 Berks street, Philadelphia. Owner, Morris R. Davis, on premises. Brick, 2 sto-

ries, 103x20 feet, gas steam heat, electric light, slag roof, hardwood floors. Owner ready for bids.

**Residences (5)**, Southwest Corner Wittaker and Bleigh streets, Philadelphia. Architect, W. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Ahn & Hagen, 1040 Rising Sun avenue, Philadelphia. Brick, stucco and asbestos shingle, 2 stories, 15 feet 8 inches x 38 feet 8 inches, slag and asbestos shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners taking sub-bids due as soon as possible.

**Store and Residence**, Southeast Corner Twentieth and Rittenhouse streets, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, William Kinkel, Twentieth and Locust streets, Philadelphia. Brick, 3 stories, 19x40 feet (heating, plumbing, electric reserved), slag roof, hardwood and linoleum floors, metal lath, tile and marble work, bond, metal bulks, iron work. Architect taking sub-bids.

**Logan Office**, Southeast Corner Broad and Loudon streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Cheltenham Trust Co., Germantown and Cheltenham avenues, Philadelphia. Brick, cut stone, limestone, steel, 2 stories and basement, 71x33 feet, steam heat, electric light, metal lath, marble and terrazzo work, bond, terra cotta, cement, pine and linoleum floors, Carey's roof. Banking screens and partitions. Architects taking bids due October 8th.

**Store and Apartment (alts. and add.)**, 1511 Foulkrod street. Architect, E. Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, G. Thiele, care of architect. Brick, 2 stories, 15x15 feet, 30x15 feet, hot water heat, electric light, tile and marble work, copper bars, plate glass, slag roof, hardwood and composition floors. Architect taking bids due October 4th.

**Residence**, Bell's Mill Road, Chestnut Hill, Philadelphia. Architects, Hamilton & Hesser, Green and Cheltenham avenues, Philadelphia. Owner, Richard Hey, care of architect. Stone, brick, cut stone, steel, 2½ stories, 48x25 feet, 20x18 feet, hot water heat, electric light, shingle roof, oak and pine floors, cement work, plumbing, ornamental iron work. Architects taking bids due October 8th.

**Residences (2)**, Germantown, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Russell Foster, Sixty-seventh and Ogontz avenue, Philadelphia. Stone, 2½ stories, 16x41 feet each, hot water heat, electric light, tile work, shingle roof, hardwood floors. Architect taking bids due October 4th.

**Laundry Building (alts. and add.)**, Market to Filbert street, East of Forty-first street, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Modern Laundry, on premises. Brick, mill construction, one story, 32x160 feet, slag roof, maple floors, plumbing, electric light, rolled steel sash, hollow metal skylights (saw

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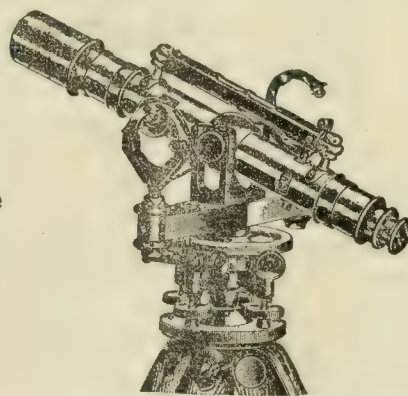
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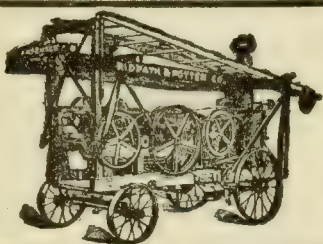
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tooth), new front to old building on Market and Forty-first street sides, cut stone and Indiana limestone. Architect taking bids due October 8th, due 10 A. M.

**Schools (alts.)**, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. West Philadelphia High, moving picture booth. Kelly, electric work. Various schools, addition to heating equipment. Various schools, electric work. Various schools, general repairs, new flag poles. Stetson Junior High, new floors. Owners taking bids due October 4th at noon.

**Boasting Station**, Germantown avenue and Graver's Lane, Chestnut Hill. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Stone, cut stone, 1½ stories, 28x22 feet (plumbing, heating and electric, separate bids), slate roof, metal lath, hollow metal sash, bond, iron work. Lowest bidders: Cramp & Co., Denckla Building, Philadelphia, \$4,757; Robbins Cont. Co., 1137 North Front street, Philadelphia, \$4,943.

**Residences (16)**, 5433-63 Diamond street, Philadelphia, \$118,500. Architect, private plans. Owner, Hugh C. Forbes, 5400 Diamond street, Philadelphia. Brick, 2 stories, (1) 16x48 feet, (1) 20x48 feet, and (14) 16x31 feet and 12x15 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Residences (15)**, South side Geneva street, East of Westford Road, \$91,000. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (15)**, West side Horrocks street, North of Orthodox, \$72,500. Architect, private plans. Owner, Carl A. Mayer, 140 Clarkson avenue, Philadelphia. Brick, 2 stories, (1) 16x43 feet and (14) 15x28 feet, 12x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (26)**, East side Sylvester street, North of Pratt street and South of Bridge street, Philadelphia, \$132,000. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, P. J. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 11x11 feet, (2) 17x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence and Store (alts.)**, (2), 702-04 South Eighteenth street, \$6,000. Architect, private plans. Owner, Lewis Cohen, Southwest Corner Seventeenth and Bainbridge streets, Philadelphia. General alterations. Owner will build.

**Residences (2)**, West side Thomas avenue, North of Angora Terrace, \$5,000 each. Architect, private plans. Owner, A. Massey, 714 South Fifty-second street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat. Also **Garages (2)**, brick, 1 story, 18x16 feet and 11x16 feet, \$1,600. Owner will build.

**Residences (4)**, East side Montour street, South of Bleigh, \$4,000 each. Architect, private plans. Owner, Louis Leitenberger, 7345 Oxford avenue, Philadelphia. Brick, 2 stories, 14x42 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (5)**, North side Ripka avenue, West of Mitchell street, \$3,500 each. Architect, private plans. Owner, Joseph W. Hyde, 357 Lyceum avenue, Philadelphia. Brick, 2 stories, 14x26 feet, 11x12 feet, hot water heat, electric light. Owner will build.

**Storehouse and Residence**, East side St. Mark's Square, South of Woodland avenue, \$3,500. Architect, private plans. Owners, Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia. Brick, 2 stories, 15x50 feet. Owners will build.

**Residence**, 7542 Williams avenue, Philadelphia, \$6,000. Architect, private plans. Owner, Arthur M. Laneo, 2050 East Haines street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (6)**, West side Shelbourne, South of Princeton street, \$4,000 each. Architect, private plans. Owner, M. Stevens, 916 St. Vincent street, Philadelphia. Brick, 2 stories, 14x38 feet, hot water heating, electric lighting. Owner will build.

**Residences (2)**, South side Gibson avenue, West of Seventy-ninth street, \$3,000 each. Architect, private plans. Owner, John Yoskin, 5624 Larchwood avenue, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hot air heat, electric lighting. Owner will build.

**Store and Residence (alts. and add.)**, 5805 Market street, \$3,000. Architect, private plans. Owners, Brinton Brothers, on premises. Brick, second story add., general alterations. Owners will build.

**Residence**, South side Chelwynde avenue, East of Eighty-third street, \$3,000. Architect, private plans. Owner, John Nardoni, Eighty-third and Chelwynde avenue, Philadelphia. Brick, 2 stories, 14x32 feet, slag roof, hot air heat, electric light. Owner will build.

**Residence**, East side Monument avenue, North of Wynnefield avenue, \$12,000. Architect, private plans. Owner, John W. Harmer, 139 Union avenue, Bala, Pa. Brick, 2 stories, 33x40 feet and 11x5½ feet, hardwood and pine floors, hot water heating, electric lighting, tile work. Also **Garage**, stone, 1 story, 21x28 feet, cement floors, \$1,400. Owner will build.

**Residences (2)**, North side Bleigh street, East of Duncan, \$4,500 each. Architect, private plans. Owner, William Moore, 1412 Vista street, Philadelphia. Frame, 2 stories, 18x14 feet, 20x14 feet, electric lighting, hot water heating. Owner will build.

**Garage**, Southwest Corner Hellerman and Edmund streets, Philadelphia, \$3,000. Architect, private plans. Owner, Walter A. Judd, 6704 Torresdale avenue, Philadelphia. Brick, 1 story, 90x31 feet, 10x17 feet, slag roof, cement floors. Owner will build.

**Store and Residence (add.)**, 6011 Vine street, Philadelphia, \$2,500. Architect, private plans. Owner, J. Joffre, 6029 Vine street, Philadelphia. Brick, 2 stories, 16x14 feet, and 1 story, 15x10 feet. Owner will build.

**Sewer Work**, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Schedule A, reconstruction of sewer in Broad street, west side, from Porter to Shunk street. Owners taking bids due October 9th, noon. For further information inquire Room 416, City Hall.

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Borie, Trumbauer & Zantzing, 1406 Land Title Building. Owners, Fairmount Park Commission, T. H. Martin, secretary, 127 City Hall. Construction of the street railway tunnel and its approaches between Twenty-third street and Spring Garden Street Bridge. Owners will take bids due October 17th at noon. Excavation, concrete reinforcing, etc.

**Building (alts. and add.),** Manheim, Philadelphia. Architect, A. L. Connaroe, 225 South Sydenham street, Philadelphia. Owners, Germantown Cricket Club, Manheim and Morris street, Philadelphia. General alterations, electric light, tile and marble work, hardwood floors, changing partitions, plumbing. Architect taking bids due October 10th.

Architect taking bids due October 10th.

**Service Station,** 7290-94 Woodland avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Louis Kirshner, care of architect. Architect taking bids due as soon as possible.

**Tool House,** Kensington and Pacific street, Philadelphia, Pa. Division engineer, Mr. Fretwell, Thirty-second and Powelton avenue, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Frame and stucco, 2 stories, 16x32 feet, asphalt shingle roof, plank floors, electric lighting, plumbing. Engineering taking bids due October 5th.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Bank and Office Building (int. finish),** Southwest Corner Fifteenth and Chestnut streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Trust Co., C. A. Harris, Jr., 20 South Fifteenth street, Philadelphia. Brick, steel, manufactured stone, first and second floors, basement and sub-basement, 138x79 feet, rubber tile and cement floors, steam heat, electric light, tile and marble work, hollow tile, metal lath, elevators, ornamental iron work and stairs. Contract awarded John N. Gill Construction Co., Otis Building, Philadelphia.

**Workshop,** South side Emerson street, East of F street, Philadelphia, \$3,500. Architect, private plans. Owner, A. Lauterback, 621 Solly avenue, Philadelphia. Frame, 1 story, 75x20 feet, pine floors, electric lighting. Contract awarded to H. Jakob, 2500 North Mascher street, Philadelphia.

**Residence (alts.),** 1328 Lombard street, Philadelphia, \$2,000. Architect, private plans. Owner, A. Wasserman, 2435 Gray's Ferry Road, Philadelphia. General alterations. Contract awarded to Simon Bennett, 8216 Eastwick avenue.

**Ice Storage Building,** Seventeenth and Washington avenue, Philadelphia. Architect, private plans. Owners, American Ice Co., on premises. Brick, concrete and steel, 3 stories, 80x100 feet, slag roof, concrete floors, plumbing, rolled steel sash, bond, waterproofing. Contract awarded Sutton & Stephenson, 1317 Washington avenue.

**Library (alts. and add.),** 4035 West Girard avenue, Philadelphia, \$16,000. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, Progress Library of West Philadelphia, on premises. Brick, 3 stories, 18x17 feet, and 2 stories, 18x54 feet, hot water heat, electric light, slag roof, maple and pine floors, stair work, plastering, slag roof, painting,

glazing. Contract awarded to B. Sherman, 1226 North Eighth street, Philadelphia.

**Gymnasium and Swimming Pool Building,** School House Lane, Germantown, Philadelphia. Architects, Zantzing, Borie & Medary, Otis Building, Philadelphia. Owners, William Penn Charter School, Twelfth above Chestnut street, Philadelphia. Stone, brick, cut stone, steel, 2 stories and basement, 213x68 feet, wing 46x50 feet, slate and slag roof, cement and maple floors, metal lath, tile and marble work, bond, iron work, waterproofing. Contract awarded H. H. Conway, 5800 Walnut street, Philadelphia.

**Building (alts.),** 5555 Germantown avenue, Philadelphia. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owner, F. J. Campbell, care of architect. Carpentry and mill work, painting and glazing, plastering, plumbing, electric work. General interior alterations into offices. Contract awarded Perry T. McCluskey, 24 South Seventh street, Philadelphia.

**Alterations and Additions,** 730-32 Cheltenham avenue, Philadelphia. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, Graham & Mershon, on premises. Brick, steel, cut stone, 1 story, 28x12 feet, hot water heat, electric light, tile and marble work, slag roof, pine floors, plumbing iron work. Contract awarded to J. Copeland, 1218 North Seventh street, Philadelphia.

**Residence (alts.),** 318 South Twenty-first street, Philadelphia. Architect, Ralph Goldberg, 10 South Eighteenth street, Philadelphia. Owner, Oscar L. Isenberg, care of architect. Heating alts., electric light, plaster-



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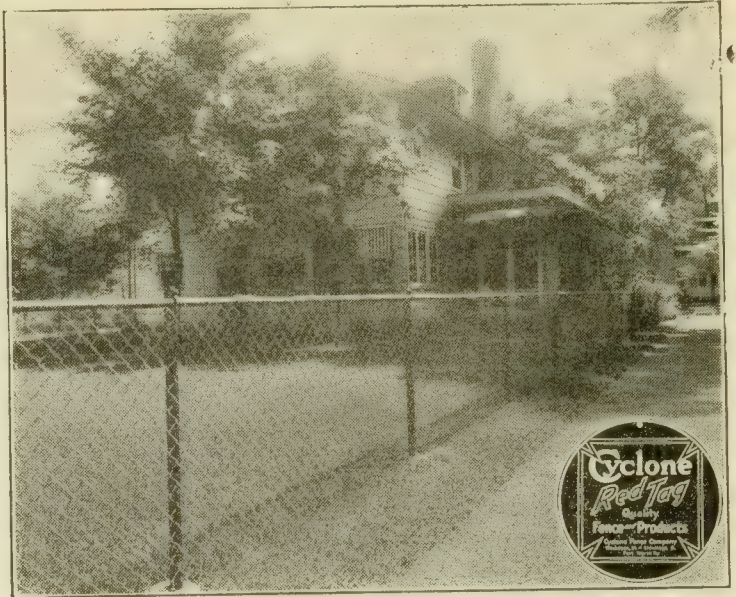
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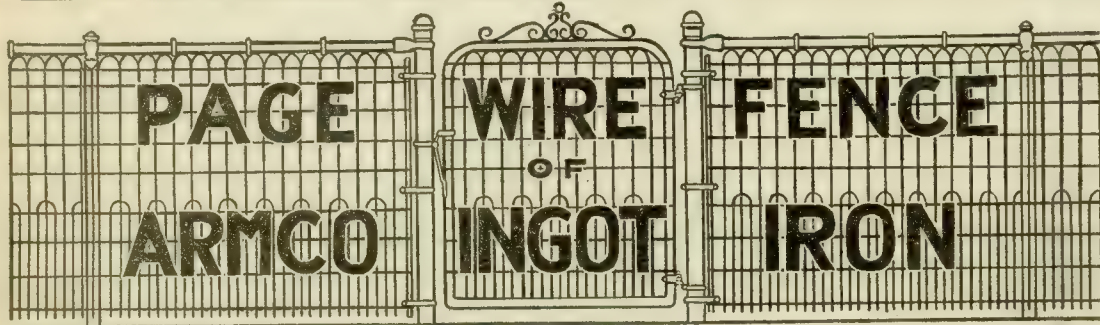


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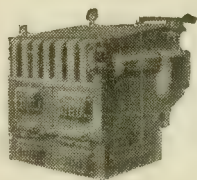
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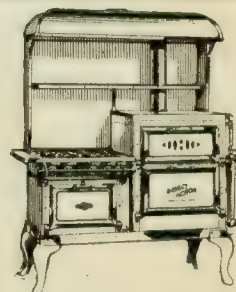
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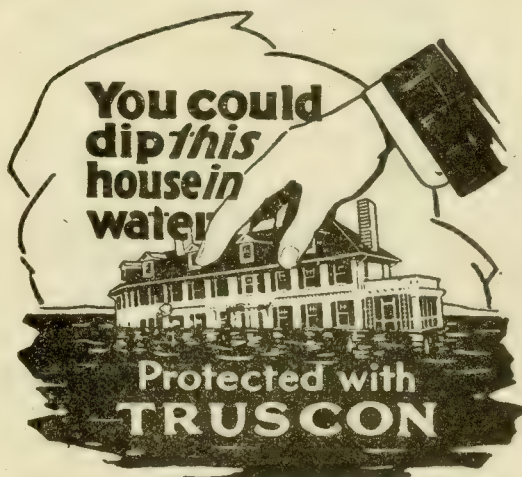
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ing, carpentry and mill work, painting and glazing, plumbing. Contract awarded Alexander Viogt, 6108 North Tenth street, Philadelphia.

**Church**, Wyoming avenue, near A street, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Wyoming Avenue Baptist Church, on premises. Stone, cut stone, steel, 76 feet, 6 inches x 58 feet, 4 inches (heating reserved), electric light, slag roof, composition floors. Contract awarded T. C. Trafford, 1619 Sansom street, Philadelphia.

**Piers Nos. 97, 98, 99**, foot of Oregon avenue, Philadelphia, \$400,000. Architect, private plans. Owners, United States Shipping Board, Shipping Board Emergency Fleet Corporation, care of J. M. Hoffman, Division of Docks and Wharves, Washington, D. C. Repairs to substructure and decks of portion of piers, bond. Contract awarded Edward Fay & Son, 2 South Mole street, Philadelphia.

**Store**, Southwest Corner Wissahickon avenue and Johnson street, \$18,500. Architect, private plans. Owner, Bertha Hoffman, 510 Stock Exchange Building, Philadelphia. Brick, 1 story, 36x95 feet, slag roof, electric lighting. Contract awarded to H. Slavitt, 5136 Haverford avenue, Philadelphia.

**Garage**, Southeast Corner Lincoln Drive and Mt. Pleasant avenue, \$20,000. Architect, private plans. Owners, De Paul, Miller & Lush, 80 East Sharpnack street, Philadelphia. Stone, 1 story, 99x78 feet, cement floors, electric lighting. Contract awarded to John De Paul & Brother, 80 East Sharpnack street.

**Residence**, North side Shawmont avenue, West of Silverwood street, \$12,000. Architect, private plans. Owner, E. E. Heistand, Boston, Mass. Stone and frame, 2 stories, 32x44 feet, hardwood and pine floors, hot water heating, electric lighting, tile work. Contract awarded to George M. Robinson, 635 Rex avenue, Philadelphia.

**Residence and Store (alts. and add.)**, 705 South street, \$8,500. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Mrs. B. Slivken, on premises. Brick, second story add., 14x15 feet, slag roof, hardwood and pine floors, general alterations. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

**Residence and Store (alts. and add.)**, 3200-02 North Fifth street, \$8,000. Architect, private plans. Owners, Fairhill Trust Co., 3204 North Fifth street, Philadelphia. Brick, 2 stories, 17x18 feet, 4x10 feet, general alterations. Contract awarded to North East Realty Co., Fifth and Allegheny avenue.

**Office (add.)**, 212 South Eighteenth street, Philadelphia, \$7,500. Architect, private plans. Owners, Parrish & Company, 1500 Walnut street, Philadelphia. General alterations and additions. Contract awarded to E. S. Tillotson, 236 Dickinson street, Philadelphia.

**Garage**, 3102 Van Kirk street, Philadelphia, \$4,250. Architect, private plans. Owner, James McBanon, on premises. Brick, 1 story, 42x32 feet, slag roof, cement floors. Contract awarded to Charles S. A. Booth, 4355 Frankford avenue.

**Residence (alts.)**, 6211 Lansdowne avenue,

Philadelphia, \$4,000. Architect, private plans. Owner, M. J. Callahan, 3924 Market street, Philadelphia. General alterations. Contract awarded to Edward S. Collins, 325 Budd street, Philadelphia.

**Store and Office (alts.)**, 926 Walnut street, Philadelphia, \$4,000. Architect, private plans. Owner, M. Spivah, 902 Walnut street, Philadelphia. General alterations. Contract awarded to I. Manin, 2420 North Douglass street, Philadelphia.

**Gasoline Station**, Southwest Corner Thirtieth and Allegheny avenue, \$9,500. Architect, private plans. Owner, Louis Brown, 509 Stock Exchange Building, Philadelphia. Brick, 1 story, 14x10 feet, cement floors, electric lighting. Contract awarded to H. Slavitt, 5136 Haverford avenue.

**Residence**, South side Rhawn street, East of Rowland avenue, \$4,800. Architect, private plans. Owner, Edward H. Curtis, Holmesburg, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to C. Day, 3503 Decatur street, Philadelphia.

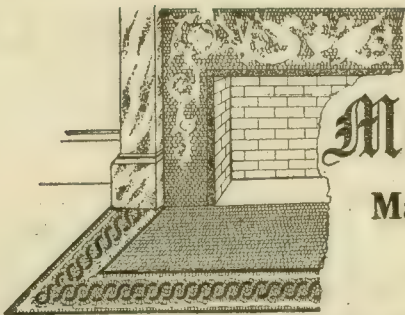
**Residence**, Northwest Corner Charles and Magee streets, Philadelphia, \$6,000. Architect, private plans. Owner, Paul Keigler, 5264 Wyoming avenue, Philadelphia. Hollow tile and stucco, 2 stories, 28x47 feet, hardwood and pine floors, hot air heat, electric light, tile work. Contract awarded to Louis Ahlers, Jr., 4433 Salmon street.

**Workshop**, 2605 North Sixth street, Philadelphia, \$4,000. Architect, private plans. Owner, Harry Hall, on premises. Brick, 1 story, 16x53 feet, slag roof, pine floors, electric work. Contract awarded to A. J. Monaghan, 2615 North Sixth street, Philadelphia.

**Store and Residence (add.)**, 4054 Girard avenue, Philadelphia, \$4,000. Architect, private plans. Owner, B. Rosen, on premises. Brick, 2 stories add., 14x16 feet, and 1 story add., 3½x24 feet. Contract awarded to A. Gorelick, 3876 Wyalusing avenue, Philadelphia.

**Residence and Office (add. and alts.)**, 3200-02 Potter street, \$3,000. Architect, private plans. Owner, A. P. Finney, on premises. Brick, 1 story add., 16x7 feet, and 1 story, 12x7 feet, general alterations. Contract awarded to F. Deitrich, Jr., 1828 East Schiller street.

**Residence**, West side Paoli avenue, South of Silverwood, \$6,000. Architect, private



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plans. Owner, William Taylor, 505 Hermitage street, Philadelphia. Stone, 2 stories, 20x15 feet, 25x20 feet, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to G. W. Steinle, 3443 Sunnyside avenue, Philadelphia.

**Residence**, North side Ashburner street, East of Cottage street, \$4,800. Architect, private plans. Owner, Charles Johnson, Holmesburg, Philadelphia. Frame, 2 stories, 16x42 feet, hot water heat, electric light, hardwood and pine floors. Contract awarded to C. Day, 3503 Decatur street, Philadelphia.

**Residence**, South side Rhawn street, West of Rowland avenue, \$3,500. Architect, private plans. Owner, Herbert Gransback, Holmesburg, Philadelphia. Brick, 2 stories, 14x27 feet, slag roof, electric work. Contract awarded to C. Day, 3503 Decatur street, Philadelphia.

**Residence and Store Add.**, 342 Catharine street, Philadelphia, \$3,500. Architect, private plans. Owner, A. Horan, on premises. Brick, 2 stories, 10x12 feet, slag roof, electric work. Contract awarded to H. Krevait, 1367 Frankford avenue, Philadelphia.

**Warehouse (alts.)**, 1740 Ludlow street, Philadelphia, \$3,000. Architect, private plans. Owner, Frank P. Mellon Estate, 1712 Ludlow street, Philadelphia. General alterations. Contract awarded to George L. Dougherty, 1735 Ludlow street, Philadelphia.

**Garage**, 5224 Rising Sun avenue (rear), Philadelphia, \$3,000. Architect, private plans. Owner, J. W. Munyan, on premises. Brick, 1 story, 20x51 feet, slag roof, cement floors. Contract awarded to G. Zito & Son, 5907 North Broad street, Philadelphia.

**Factory (add.)**, 119-21 North Fifth street, Philadelphia, \$3,000. Architect, private plans. Owner, Joseph Judovich, 3300 Baring street, Philadelphia. Brick, elevator shaft, 6 stories, 6x18½ feet. Contract awarded to Toll Brothers, 5737 Larchwood avenue, Philadelphia.

**Residence and Store (alts.)**, 2912 York street, Philadelphia, \$3,000. Owner, Henry Roberts, Jr., 3110 West York street, Philadelphia. General alterations. Contract awarded to Charles Schnitzer, 4502 York Road, Philadelphia.

**Garage (add.)**, 1843 South Twenty-second street, Philadelphia, \$2,500. Architect, private plans. Owner, Charles O. Thorm, on premises. Brick, 1 story add., 18x17 feet, slag roof, cement floors. Contract awarded to N. Brandolin, 1417 South Fifteenth street, Philadelphia.

**Residences (2) (add.)**, 2413-15 North Fifty-fourth street, \$2,400 total. Architect, private plans. Owner, Paula B. Ellis, 2409 North Fifty-fourth street, Philadelphia. Brick, 2 stories add., 27x10 feet. Contract awarded to George W. Botsford, 2401 North College avenue.

**Residence and Store (alts. and add.)**, 1822 South Thirteenth street, \$2,200. Architect, private plans. Owner, Joseph Tomo, on premises.

ises. Brick, 2 stories add., 12x16 feet, general alterations. Contract awarded to M. Cipriano, 1920 Jackson street, Philadelphia.

**Store**, 1129 Tasker street, Philadelphia, \$2,000. Architect, private plans. Owner, N.

Castatucci, 1131 Tasker street, Philadelphia. Brick, 1 story, 14x30 feet, slag roof, yellow pine floors. Contract awarded to V. Ipponeto, 2226 South Tenth street, Philadelphia.

## PENNSYLVANIA

# Construction News

**Residence (alts. and add.)**, Lake Dunmor, Vt. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, E. Lawrence Dudley, 336 South Nineteenth street, Philadelphia. Poreh addition, interior alterations, changing partitions, plumbing and lighting. Plans in progress.

**Store and Apartment (alts. and add.)**, Southwest Corner Thirty-seventh and Walnut streets. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, H. C. Alberti, care of architect. General alterations and additions. Architects taking bids due October 5th.

**Garage and Service Station**, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Herr & Co., 218 West Orange street, Lancaster, Pa. Steel, concrete, 3 stories and basement, 65x150 feet, slag roof, concrete, steel and wood floors, electric light, metal lath, tile, marble work, rolled steel sash, fire doors, dampproofing, ornamental iron work. Plans in progress.

**Garage**, Bethlehem, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Mr. Orlando, care of architect. Brick, 2 stories, 120x40 feet, slag roof, concrete floors, hot water heat, electric light, rolled steel sash, floor hardener. Plans in progress.

**Garage and Apartment**, Allentown, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Samuel Elite, Allentown, Pa. Brick, 1 and 2½ stories, 120x22 feet, slag roof, concrete and hardwood floors, hot water heat, electric light, rolled steel sash and skylights, floor hardener. Plans in progress.

**Residences (28), Stores (14)**, Elmwood, Pa. Architect, C. H. Wilson, 2028 Berks street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x48 feet, slag and tin roof, hardwood and pine floors, hot water heat, electric light, tile work, plumbing. Plans in progress.

**Residence**, Nanticoke, Pa. Architect, G. T.

Price, 110 Adams street, Scranton, Pa. Owner, name withheld. Frame, 2½ stories, 28x30 feet, asphalt shingle roof, pine floors, steam heat, electric light, tile work. Plans in progress.

**Residence**, Academy Manor, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Charles Stroh, 222 Market street, Harrisburg, Pa. Stone, 2½ stories, 28x60 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

**Sunday School**, Fourth street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Fourth Street Church of God, C. E. Bair, chairman Building Committee, Franklin Building, Harrisburg, Pa. Brick, 1 story and basement, 48x92 feet, slag roof, hardwood floors, city heating, electric lighting. Preliminary plans in progress.

**Residence**, Lykens, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owner, Dr. C. C. Bobb, Lykens, Pa. Stucco and cinder block, 2½ stories, 30x40 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light. Plans in progress.

**Bank**, Burnham, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, First National Bank of Burnham, E. C. Mayes, Burnham, Pa. Brick and stone, 1 story, 30x50 feet, built-up roof, electric light, tile work, rolled steel skylights, roof ventilators, metal window guards, vault. Plans in progress.

**Residence**, Harrisburg, Pa. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa. Owner, Captain Whitney, care of architects. Brick, 2½ stories, 40x35 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Residence (alts.)**, Carlisle, Pa., \$25,000. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa. Owner, Ralph Hays, Carlisle, Pa. Brick, general interior and exterior al-

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terations, hardwood floors, vapor heat, tile work, new partitions work. Plans in progress.

**Store (alts. and add.),** Nanticoke, Pa. Architect, G. Price, 110 Adams street, Scranton, Pa. Owner, J. Bendock, Nanticoke, Pa. Frame, 2 stories, 42x22 feet, slag roof, pine floors, electric light, plate glass, metal ceilings. Plans in progress.

**Apartment** Allentown, Pa. Architect, E. R. Bitting, Odd Fellows' Building, Bethlehem, Pa. Owner, Samuel Mellner, 233 North Eighth street, Allentown, Pa. Brick, 3 stories, 32x22 feet, slag roof, pine floors, hot water heat,

electric light, tile work. Plans in progress. Owner will take bids.

**Club House,** Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, St. Aloysius' Society, H. Spiegel, South Bethlehem, Pa. Brick, 2 and 3 stories, 110x80 feet, composition roof, hardwood floors, hollow tile, safety treads, roof ventilators, steam heat, electric light, metal lath, tile and terrazzo work, rolled steel sash. Architects taking bids.

**Residence,** Boiling Spring, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owner, Mr. Kester, Boiling Springs, Pa. Stone, 2½ stories, 30x40 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Warehouse (alts. and add.),** Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consolidated Cigar Corp., Prince and Lemon streets, Lancaster. Brick, steel, 1 story and basement, 80x80 feet, plank roof, concrete and plank floors, electric light, freight elevators, rolled steel sash, fire doors. Architect ready for bids.

**High School,** Lancaster, Pa. Architect, E. C. Urban, Woolworth Building, Lancaster, Pa. Owners, School Board of Lancaster, K. J. Newell, Lancaster. Brick, steel, concrete, 3 stories, 219x200 feet, built-up roof, hardwood floors (heating, plumbing, electric work and ventilating reserved), hollow tile, safety treads, roof ventilators, tile and marble work, waterproofing, dampproofing, iron stairs. Plans in progress. Owners ready for bids.

**School,** Greensburg, Pa. Architects, Maurice Kressley Co., Harrisburg, Pa. Owners, Greensburg School Board, Mary M. Peoples, secretary, Greensburg, Pa. Brick, steel, concrete, 2 and 3 stories, 316x189 feet, tile roof, composition floors (heating, plumbing, ventilating and electric work reserved), metal lath, rolled steel skylights, safety treads. Revised plans in progress. Owners will be ready for bids in two weeks.

**Residence,** Roslyn, Pa. Architect, Robert C. Winter, 11 South Sixteenth street, Philadelphia. Owner, F. G. Wiggins, Chalfonte, Pa. Frame, 2½ stories, 24x38 feet, hot air heat, electric light, shingle roof, pine floors. Owner will take bids.

**Residences (2),** Bryn Mawr, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, J. Carson and Mrs. W. R. Smith, 1524 Chestnut. Stone, 2½ stories, 70x80 feet and 39x38 feet, slate roof, oak and pine floors, hot water heating, electric light, metal lath, tile and iron work. Architects taking revised bids due October 5th.

**Apartment Building,** Kingston, Pa., \$250,000. Architect, Austin L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Kingston Manor Apartment Co., J. K. Steliotes, 254 South Franklin street, Wilkes-Barre, Pa. Brick, 3 stories, 70x170 feet, slag roof, hardwood floors, hollow tile, steam heat, electric light, metal lath, tile and marble work. Architect taking bids.

**School,** Larksville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Larksville School Board, J. Casey, secretary, Larksville, Pa. Frame, 2 stories and basement, 87x155 feet, slag roof, hardwood and pine floors, hollow tile, roof ventilators, skylights (heating, plumbing,

electric and ventilating reserved). Owners taking bids due October 5th.

**Garage and Salesroom,** Market street, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, 15 South Franklin street, Wilkes-Barre. Owners, Wilkes-Barre Buick Co., 179 South Main street, Wilkes-Barre, Pa. Brick, reinforced concrete, 2 stories, 72x120 feet. Sketches in progress.

**Temple (add.),** North Franklin street, Wilkes-Barre, Pa. Architects, Sturdevant & Foster, Coal Exchange Building, Wilkes-Barre. Owners, Masonic Temple, care of architects. Brick, terra cotta, 2 stories, 40x110 feet, hardwood floors, electric light, tile work. Will be ready for bids in three weeks.

**Apartment,** Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, L. K. Collmann, care of architects. Stucco, 3 stories, 38x75 feet, slag roof, pine floors, steam heat, electric light, tile work. Plans in progress. Architects will be ready for bids October 1st.

**School, Gymnasium and Auditorium,** Mt. Carmel Township, Northumberland County. Architect, J. A. McClynn, Simon Long Building, Wilkes-Barre, Pa. Owners, School Board of Mt. Carmel Township, William Hollister, secretary, Mt. Carmel, Pa. Frame and steel, 2 stories and basement, 123x120 feet, slag roof, pine floors, hollow tile, safety treads, roof ventilators, waterproofing, iron stairs, bond, tile work (heating, plumbing, electric and ventilating reserved). Owners will be ready for bids next week.

**Residence,** Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, I. Blum, 19 East Jackson street, Wilkes-Barre, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Architects ready for bids due October 12th.

**Residence (alts. and add.),** 105 City avenue, Bala, Pa. Architects, Heacock & Hekanson, 1218 Chestnut street, Philadelphia. Owner, Walter S. Detweiler, on premises. Masonry work, mill work, plastering, painting and glazing, tile and marble work. Architect taking bids due October 8th.

**Kerdon Grade School (alts. and add.),** Kerdon, Delaware County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School District of Ridley Township, Delaware County, Pa. Brick, steel, reinforced concrete, cut stone, 2 stories, 25x75 feet, steam heat, electric light, metal lath, composition roof, cement and pine floors, hollow tile, roof ventilators, waterproofing and dampproofing, ornamental iron work, bond, tin-clad doors, metal lath. Owners taking bids due October 6th.

**School,** Woodlyn, Delaware County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School District of Ridley Township, Delaware County, Pa. Brick, steel, reinforced concrete, cut stone, 2 stories, 33x23 feet, 2 wings, steam heat, electric lighting, metal lath, tin-clad doors, bond, ornamental iron work, composition roof, cement and pine floors, hollow tile, roof ventilators, waterproofing and dampproofing. Owners taking bids due October 6th.

**School (add.),** Leiperville, Delaware County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School

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District of Ridley Township, Delaware County, Pa. Brick, steel, reinforced concrete, cut stone, 2 stories, 77x25 feet, steam heating, electric lighting, metal lath, tin-clad doors, bond, ornamental iron work, damp-proofing and waterproofing, roof ventilators, cement and pine floors, hollow tile, composition roof. Owner taking bids due October 6th.

**Residence**, No. 2, Haverford, Pa. Architect, Charles F. Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 95x26 feet, slate roof, oak and pine floors, tile work (plumbing, heating and hardware and electric reserved.) Architect taking bids due October 4th.

**Temporary Chapel**, Glenolden, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. George's Roman Catholic Church, Rev. Orr, Glenolden, Pa. Frame, 1 story, 22x65 feet, hot air heat, electric light, slag roof, pine floors. Architect taking bids.

## Pennsylvania Contracts Awarded

**Dormitory Building**, Doylestown, Pa. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, National Farm School, Doylestown, Pa. Brick, cut stone, steel, stucco, limestone, 2½ stories, 135x48 feet, vacuum heat electric light, metal lath, tile, marble and terrazzo work, kalamein sash and doors, bond, iron work, metal weather strip, plumbing, tile work, slate roof. Contract awarded Hughes Foulkrod Co., Commonwealth Building, Philadelphia.

**School**, Luzerne, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Sacred Heart Roman Catholic Church, Rev. Teibe, Luzerne, Pa. Brick, stone, frame, steel, 2 stories, 59x70 feet, slag roof, pine floors, roof ventilators, metal ceilings, waterproofing, rolled steel sash, metal lath (heating, electric work and ventilating reserved). Contract awarded to J. J. Gibbon, Avoca, Pa.

**School**, Glen Lyon, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Newport Township School District, S. Scott, Glen Lyon, Pa. Brick, stone, 2 stories and basement, 144x94 feet, slag roof, hardwood floors, hollow tile, safety treads, roof ventilators, iron stairs, rolled steel skylights, tile work. Contract awarded to H. Mailander, 167 Barney street, Wilkes-Barre, Pa.

**Garage**, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, 15 South Franklin street, Wilkes-Barre. Owner, Reuben Trethaway, Wilkes-Barre, Pa. Brick, 1 story, 24x25 feet, slag roof, concrete floors, electric work. Contract awarded to O. J. Behrens & Sons, 179 Blackman street, Wilkes-Barre.

**Residence (alts. and add.)**, South Washington street, Wilkes-Barre. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Dr. S. Hurwitz, 185 South Washington street, Wilkes-Barre, Pa. Brick, 1 story, 17x22 feet, slag roof, hardwood floors, electric light, tile work, general alterations. Contract awarded to F. H. Franklin, 73 Rees street, Wilkes-Barre, Pa.

**Store and Apartment**, 111½ North Broad street, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Philadelphia. Owner, J. Judas, National Provisions Co., 9 South Seventh street, Allentown, Pa. Brick, 3 stories, 30x80 feet, slag roof, maple floors, steam heat, electric light, tile work, plate glass, hollow metal skylights. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

**Garage and Apartments**, Harrisburg, Pa. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa. Owner, L. Silvert, Harrisburg, Pa. Brick, steel, 2 stories, 52x87 feet, composition roof, concrete and pine floors, freight elevators, city heat, electric light, tile work, rolled steel sash. Contract awarded to M. H. Gettys, 210 Mulberry street, Harrisburg.

**Bank (add.)**, Langhorne, Pa. Architect, Thomas Stephens, Temple Building, Camden, N. J. Owners, People's Bank, Langhorne, Pa. Stone, 2 stories, 20x45 feet, slate roof, oak floors, general interior alterations. Contract awarded to J. K. La Rue, Brightstown, Pa.

**Bank (alts. and add.)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Lancaster County Bank, care of architect. Brick, reinforced concrete, 1 story, 30x70 feet, composition roof, hardwood floors, electric light, metal window guards, rolled steel skylights. Contract awarded to D. L. Warfel, 908 East Orange street, Lancaster, Pa.

**Residence**, Kingston, Pa. Architect, Thomas Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owner, R. E. Smith, 85 Hazel avenue, Wilkes-Barre, Pa. Brick, 2½ stories, 37x38 feet, slate roof, hardwood floors, electric work. Contract awarded to William Ansbery, 147 Barney street, Wilkes-Barre, Pa.

**School**, Frackville, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, West Mahoney Township School Board, M. K. Coyle, Lost Creek, Pa. Frame, 1 story, (4) rooms, 59x77 feet. Contract awarded to Andrew Breslin, Summitt Hill, Pa.

**School**, Shenandoah Heights, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, West Mahoney Township School Board, M. K. Coyle, secretary, Lost Creek, Pa. Brick, 1 story, (6) rooms, asbestos shingle roof, pine floors, steam heating, electric lighting. Contract awarded to E. R. Bastress Co., Mt. Carmel, Pa.

**Residence**, Scranton, Pa. Architect, G. T. Price, 110 Adams street, Scranton, Pa. Owner, E. Morosini, 2225 North Washington avenue, Scranton, Pa. Frame, stucco, 2½ stories, 28x28 feet, tile roof, hardwood floors, steam heat, electric light, metal lath. Contract awarded to Fred Klee, 1030 Paul avenue, Scranton, Pa.

**Garage**, Nanticoke, Pa. Architect, G. T. Price, 110 Adams street, Scranton, Pa. Owners, Zigmond & Butkiewci, Nanticoke, Pa. Brick, 1 story, 24x70 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Contract awarded to F. Collins, Nanticoke, Pa.

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa.

Somerset County, Route 52, A-1361, Boswell Borough. One course reinforced concrete. Contract awarded to C. J. Newman & Co., Boswell, Pa., \$23,010.30.

Fayette County, R-117, Everson Borough. One course reinforced concrete. Contract awarded to J. I. Dick, Scottdale, Pa., \$37,741.65.

Lancaster County, Route 138, Manheim Borough. One course reinforced concrete. Contract awarded to Swanger-Fackler Const. Co., Lebanon, Pa., \$43,580.20.

York County, A-2002, Shrewsbury Township and New Freedom Borough. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to W. C. Guncheon & Co., Harrisburg, Pa., \$57,602.30.

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa.

Northampton County, A-2557, Northampton Borough. Either bituminous surface course on concrete foundation or one course rein-

forced concrete. Contract awarded to General Paving Co., Allentown, Pa., \$42,352.15.

Delaware County, R-131, Middletown Township. Either bituminous surface course on concrete foundation or one course reinforced concrete, \$100,074.04. Contract awarded to Highway Const. Co., Land Title Building, Philadelphia.

Erie County, A-1467, Harbor Creek Township. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to Charles H. Fry Const. Co., Erie, Pa., \$110,629.30.

Greene County, R-268, Jefferson Borough. One course reinforced concrete. Contract awarded to Reed & Moore, Waynesburg, Pa.

## New Jersey Construction News

**Church**, Pacific and Maple avenues, Wildwood, N. J. Architect, Lynn Boyer, Wildwood, N. J. Owners, First Baptist Church, care of E. H. Fisher, Wildwood, N. J. Plans in progress. Too early for details.

**Church**, Poplar and Atlantic, Wildwood, N. J. Architect, Mark Reeves, Wildwood, N. J. Owners, Wildwood Lutheran Church, care of Paul J. Hoh, Wildwood, N. J. Plans in progress. Too early for details.

**Chapel**, Young's avenue, Wildwood, N. J. Architect, Mark Reeves, Wildwood, N. J. Owners, Colored Methodist Church, care of W. J. Delanny, Wildwood, N. J. Frame. Plans in progress. Too early for details.

**Apartment Building**, Pine avenue, Wildwood, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Frame, 3 stories, 50x100 feet. Plans in progress.

**Stores (5) and Apartment Buildings (6)**, Pine avenue, Wildwood, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, S. Lotuff, care of architect. Brick, stucco and concrete block, 2 stories, 65x100 feet. Plans in progress.

**Twin Residence**, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, C. H. Bond, 249 Jackson street, Trenton, N. J. Hollow tile and stucco, 2½ stories, 48x33 feet, slate roof, hardwood floors, electric light. Plans in progress.

**Boarding and Administration Buildings**, Trenton, N. J. Architect, W. F. Thompson, 342 Madison avenue, New York City, J. O. Hunt, Trenton, N. J. Owners, Young Women's Christian Association, Trenton, N. J. Brick, steel, concrete, cut stone, administration building, 3 stories and basement, 133x74 feet and 70x50 feet, boarding school, 88x72 feet, 4 stories and basement (plumbing, heating and electric separate bids), promenade tile, slate and slag roof, concrete, composition cork tile, maple and oak floors, hollow tile, elevators, safety treads, metal weather strip, waterproofing and dampproofing, ornamental iron work and stairs, floor hardener, bond, kalamein doors, copper skylights, rolled steel sash, tile and marble work, metal lath, laundry equipment, refrigerator and kitchen equipment, dumb waiters. Architect taking bids due October 9th, 2 P. M.

**Grade School**, Paulsboro, N. J. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education of Borough of Paulsboro, N. J. Reinforced concrete, brick, cut stone, 2 stories and basement, 136x65 feet, steam heat, electric light, metal lath, bond, ornamental iron work, dampproofing, hollow tile, cement and maple floors, slate roof. Owners taking bids due October 12th.

**Public School**, Woodbury, N. J. Architects,



The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education of Woodbury, N. J. Brick, cast stone, cut stone, steel, reinforced concrete, 2 stories and basement, 191x64 feet, wing 174x74 feet, slag roof, maple floors, safety treads, roof ventilators, waterproofing, ornamental iron work, floor hardener, kalamein doors, sheet metal skylights, metal lath. Owners taking bids due October 4th.

**Yard Service Building**, Camden Terminal, Camden, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway, Reading Terminal, Philadelphia. Brick, steel, 1 story, 13x89 feet, built-up asbestos roof, asphalt floors, electric light, hot water heat, bond, iron work. Owners taking bids due October 8th.

**Public School**, Pennsylvania avenue, North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board of North Wildwood, N. J. Owners taking bids due October 11th, 7.30 P. M. Note extension.

## New Jersey Contracts Awarded

**Detention Rooms and Warden's Dwelling**, Toms River, N. J. Architect, J. P. Elkinson, Toms River, N. J. Owners, Ocean County Courts, Toms River, N. J. Brick and reinforced concrete, 2½ stories, 36x60 feet, concrete and slate roof, wood and concrete floors, hollow tile partitions, steam heat, electric light, metal lath, roof ventilators, metal window guards, floor hardener, terra cotta flues. Contract awarded to Charles C. Newman, Lakewood, N. J., \$18,700. Plumbing awarded to E. A. Smith, Toms River, N. J., \$1,215. Heating awarded to E. A. Smith, Toms River, N. J., \$1,259.50. Electric awarded to J. W. Brower, Toms River, N. J., \$313.

**Boiler House and Laundry**, Atlantic City, N. J. Associate architects, H. A. Stout, J. V. Mathis and J. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Hospital, Mr. J. Moore, Atlantic City. Brick, concrete, steel, 2 stories, 50x55 feet, slag roof, concrete floors, electric light, rolled steel sash and skylights, fire doors, roof ventilators, waterproofing, dampproofing. Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City, N. J.

**Psychology Building**, Princeton, N. J., \$100,000. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Brick, concrete, steel, 2 stories and basement, 35x128 feet, slag roof, cement floors, electric light, central heating plant, rolled steel sash. Contract awarded Matthews Const. Co., Princeton, N. J.

**Infirmary Building**, Princeton, N. J., \$300,000. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Reinforced concrete, stone, steel, bluestone, limestone, 3 stories and ground, 150x100 feet, slate roof, cement floors, linoleum, hollow tile, terra cotta, plumbing, ornamental iron work and stairs, bond, fire and kalamein doors, tile and marble work, electric light, steam heat. Contract awarded Matthews Const. Co., Princeton, N. J.

**Residence**, North Wildwood, N. J. Architect, Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Adam Schlorer, care of architect. Hollow tile, stucco and brick, 2½ stories, 60x35 feet, asbestos shingle roof, oak and pine floors, metal weather strip, bond, tile work, hot water heat, electric light. Contract awarded Edward McGarry, Wildwood, N. J.

## Delaware Construction News

**Road Work**, Delaware. Owners, State Highway Department, Dover, Delaware.

Contract No. CK-17, 0.508 miles through Frederica. 1,200 cubic yards excavation, 50 tons broken stone base course, 890 cubic yards cement concrete pavement, 10 cubic yards Class A concrete, 200 pounds reinforcement, 60 lineal feet 12-inch R. C. pipe.

Contract No. 42-A, Seaford, Delaware. Temporary timber bridge, 120 feet long, 10 feet wide. Owners taking bids due October 17th at 2 P. M. Bond. Deposit of \$10.00 required (refunded).

### A NEW JOB FOR THE PUBLIC SCHOOLS

*Application of Apprentice Training  
Formula Will Scatter Many  
Perplexities of Construction  
Industry*

BY HARRY L. FIDLER,

*Vice-Chairman, Federal Board for Vocational Education*

"If I could be assured a steady supply of trained labor, one of the greatest hazards of my building operations would be removed," a prominent contractor recently told me.

His opinion reflects the present state of mind of the whole construction industry. The cost sheets of builders throughout the country are revealing the disturbing fact that in no other industry is labor turnover so rapid and so ungovernable. Everywhere there is a pressing desire for some plan which will stabilize the supply of labor. Everywhere there is disgust at the present hit-or-miss system of apprenticeship and labor training.

### "Has No Certainty"

"The building contractor today conducts his operations with no certainty that he can draw upon a dependable supply of skilled labor," my informant continued. "Instead, he is faced by a chronic feast or famine condition. During a boom period, he must contend with a shortage of skilled help, with the resultant pyramiding of labor cost and labor controversies. During a slack period he frequently carries unproductive workers on his pay roll, in order to be assured of sufficient competent workers in the next boom.

"If an attempt is made to augment the labor supply, the result will be to flood the trade with half-trained and incompetent journeymen, and the last condition will be worse than the first. The short of it is that we are suffering from a state of utter plainness is our labor policy. With the prospects good for several years of building shortage, and hence of forced operations, the condition can not but get worse, unless some plan is speedily evolved to meet it."

It is a melancholy picture, and yet every contractor will recognize most of its features as parts of his own experience. There is a very real problem confronting the industry and a very real demand for its solution.

### Labor Leaders Eager

Fortunately, the contractors are not alone in their desire for remedial action. If one talks to the more influential leaders of the trade unions, he will find the sentiment equally eager for some plan which will stabilize labor supply. Even though they are the beneficiaries of the present labor shortage, the trade unionists recognize that in the long run it will be to their interest to work out with the employers a more scientific apprenticeship system. It can be safely said that the unions today are ready to co-operate with the employers, as never before, in any sound apprenticeship training program which will not imperil the objectives of trade unionism. The unions are willing to make reasonable concessions to this end. They are anxious to secure those settled conditions of employment in the industry which will come from a regulated labor supply.

Both employers and trade unionists recognize that there is an emergency need for such action right now as a result of the operations of the present immigration act. The "3 per cent." act has confronted us with the necessity of training our own skilled workmen for the first time in American history. Formerly an annual influx of European craftsmen filled any shortages which arose in the skilled trades. Now this assistance is removed. We are thrown upon our own resources to recruit our skilled trades. In the building trades, the situation is especially acute, due to the coincidence of a housing shortage with the limitation of immigration. The Department of Commerce has recently estimated this housing shortage to total 700,000 homes. What is to be the answer to the problem?

### Obstacles In Path

Unhappily, the fact that both employers and unionists are manifestly ready for a new experiment is no guaranty of action. Past experience has shown that the most difficult task in all controversial labor matters is to bring the two sides together, in genuine good faith. Obstacles of mutual distrust and suspicion must be surmounted. The sincere desire to reach a common understanding, and if necessary to make concessions to that end, must be present. Without the intervention of a third party, representing the general public, in whose disinterestedness both employer and employee have full trust, agreement is often difficult to reach. In this problem of apprenticeship



reorganization the need of such an intermediate agency is patent.

It is my belief that the answer to the apprenticeship problem is to be found in the public school. Already, under the Federal Vocational Education act, the basis for a part-time training system has been authorized and established. By giving to the public school the responsibility, in co-operation with the employers and the unions of administering apprenticeship training, we can set up an impartial training agency, acceptable to both sides. By setting up a supervisory board in which the employers, the unions, and the public schools are equally represented, the full co-operation of each group is assured to the enterprise. Indeed, it is difficult to see any other agency than the public school which could thus bridge the gap between capital and labor and unite them in a common workable program.

#### *Results Already Gained*

The suggestion is not made without experience. Already in various cities employers and unions in branches of the building trades have taken advantage of the public vocational school system for apprenticeship training.

Perhaps New York City has taken the most noteworthy steps in this direction. In January, 1922, the New York Building Congress, composed of both the organized employers and the unions, created an apprenticeship commission to promote the development of apprentice training in the building trades. This body recently reported that through its efforts 750 boys were placed in training last year, while 250 more will soon be added. To further the work, the New York Building Trades Employers' Association has recently donated the amount of \$25,000 to the commission. In all its efforts the commission has had the unstinting support of the trade unions and it has succeeded in finding a basis of satisfactory co-operation for both employers and unions in its program.

The agency employed by the commission to this end has been the public vocational school. A typical apprenticeship plan developed in New York has been in the carpentering trade.

According to this plan, a four-year apprenticeship period is prescribed, divided into eight terms of six months each. The apprentice, in addition to his regular working hours, is required to spend four hours per week in the evening vocational school. The union enforces his attendance. For these four hours the employer during the first half year allows him one-half of his regular hourly wage rate. At the end of each six-month term the apprentice is required to pass a written and oral examination covering his progress during the period.

Upon successful passage of the examination, his wages are regularly advanced. Thus, for the first six months' period he receives a wage of 30 percent. of the journeyman's minimum; second, six months, 35 percent.; third, 45 percent.; fourth, 50 percent.; fifth, 60 percent.; sixth, 65 percent.; seventh, 75 percent.; eighth, 80 percent.; ninth, beginning journeyman's wages. Continuous employment to the apprentice is guaranteed by the general apprentice commission, and by the carpenter's joint committee. This plan is working out with general satisfaction to both employers and unions.

While the carpenters were the first trade to act under the new commission, a part-time apprenticeship training arrangement with the public schools has subsequently been agreed upon by the employing painters and decorators and by Painters' District Council No. 9 of the A. F. of L. A third trade to utilize the New York public schools is the brick-laying trade, which has recently arranged to place 115 apprentices in specially organized vocational classes. Other building trades have promised to follow. Obviously New York has started an educational movement which will rivet the attention of the nation upon the public school as an agency for apprentice training.

#### *Progress in Other Cities*

However, other cities have been equally forward in the new program. Similar instances could be multiplied.

The experience of these scattered pioneer attempts indicates, to my mind, the formula upon which successful apprenticeship training can be organized in nearly all communities where union organization in the building trades obtains. That formula is voluntary co-operation between employers and unions, through the agency of the vocational public school. Under the provisions of the Smith-Hughes Act, adequate Federal and State vocational money is available for this work. The only obstacle in most communities which deters action is the inertia of the interested groups. The initiative for such education must come from the trade itself. But whenever employers and employees are willing to sincerely join forces for this program, the public schools stand ready and eager to co-operate.

It is my opinion that the application of this new apprentice training formula on a nation-wide scale will go far toward resolving the present perplexities which the trade is facing. Those of us who are actively engaged in the work are equally convinced that ultimately public school apprentice training will accomplish the stabilization of labor supply which both employer and employee are seeking.

Unquestionably the present beginnings are steps toward a vital goal.—*The Constructor*.

#### SOME EVERYDAY PROBLEMS IN RADIATION\*

One of the first demonstrations in heat radiation given in courses of elementary physics is the "Melloni cube" which consists of a cubical metal box of hot water, having one face brightly polished and the other faces covered with lacquer, lamp black, or other paints. By means of a thermopile, it is shown that the intensity of the thermal radiation emitted by the bright metal surface is much less than that emanating from the surfaces which are covered with a nonmetallic paint.

The process of heat transfer by conduction through a solid medium, such as, for example, the walls of a steam radiator, is a molecular vibration. At the surface, part of this heat is transferred by thermal conduction to the surrounding air, which thus becomes heated and, by convection, is distributed throughout the room. Part of the heat transferred as a molecular vibration in the metal is transformed into an etherial vibration at the surface, and is transmitted through the room as radiant heat.

The experiments with the Melloni cube show that the bright, uncontaminated metal surface offers a much greater resistance to the transformation of the molecular vibration into the etherial vibration than does a nonmetallic coating applied to this same metal surface.

The experiment with the Melloni cube has, therefore, two applications, depending whether we desire to (1) *suppress* or (2) *facilitate* the process of heat radiation.

My experiments have been concerned primarily with the suppression of radiation from flat surfaces, such as, for example, the underside of a roof or a tent, the inside of a metal wall, etc., which are exposed to the sun.\*\*

The manner of making the test is extremely simple. Duplicate samples of the same material, for example tent cloth, balloon hangar roofing, fabrics for automobile tops, or ordinary sheet iron, are selected. The under (or upper) side of one sample is coated with aluminum.

\*Furnished by Department of Commerce Bureau of Standards, and written by Dr. W. W. Coblentz, *Architecture and Building*.

\*\*The amount of heat carried away by air convection has not been measured. In the case of a steam radiator, which consists of a number of segments, the heating by air convection is probably more important than the heating by radiation.



These two samples are then mounted upon a suitable holder and exposed to the sun.

After the two samples are thoroughly heated by the sun's rays, the intensity of the heat radiated from the underside of each one is measured by means of a sensitive thermopile, which is mounted directly under the sample.

The comparison of the radiation intensity of the painted and unpainted samples requires only a few minutes, and hence there is no difficulty in obtaining high accuracy.

#### 1. *Aluminum Paint is a Ready Means for Suppressing Radiation Tents, Awnings, etc.*

In coverings of white cotton cloth such as used for tents, awnings, etc., in addition to the heat re-radiated from the under side, as the result of warming by solar radiation, there is some sunlight transmitted directly through the fabric.

By coating the under side of the cloth with aluminum paint, it was found that heat radiated from the under side was reduced by 86 per cent. Painting the outside of the cloth appeared to be slightly less effective, the heat radiated from the under side being reduced only 80 per cent.

However, whether the coating is applied on the inside or the outside, there will, no doubt, be many instances where the possibility of shutting out four-fifths of this heat radiation is worthy of consideration.

Coverings of conveyances, such as for example the tops of automobiles, ice wagons, etc. consist of cloth "artificial leather," the black composition of which absorbs perhaps 90 per cent. of the sun's rays. Practically half of this is re-radiated from the under side of the cloth.

Samples of "artificial leather" having the outside covered with a coating of aluminum paint emitted only 25 to 30 per cent. as much heat radiation from the under side as the uncoated samples.

When the aluminum paint was applied on the under side, which is rough-woven, the heat emitted (from the under side) was 40 to 45 per cent. that of the unpainted sample.

From this it appears that, by applying the aluminum paint to the smooth outside of this fabric, the heat radiated from the under side will be reduced by 70 to 75 per cent.

A cypress shingle, one-half inch in thickness, having a coating of aluminum paint on the under side, emitted only 43 per cent. as much (from the under side) as an uncoated shingle of the same thickness. Similar tests on a one-inch cypress board showed practically no difference in emissivity. Evidently in thick coverings of wood, the question of painting is un-

important. This is owing to the poor heat conductivity of the wood.

On the other hand, painting the under side of a sample of the Johns-Manville asbestos roofing with aluminum paint reduced the heat radiation from the under side by 50 per cent. which is an important question in the design of balloon hangars, etc.

The automobile top is mentioned merely as one of numerous applications that can be made of aluminum paint in suppressing heat radiation from entering an enclosure which is desired to keep cool. It is a simple expedient, easily applied.

#### 2. *On Increasing the Emissivity of Steam Radiators*

For esthetic reasons, and also because it seems the custom, the steam radiators used in heating buildings are usually painted with aluminum or bronze paint. From a viewpoint of obtaining the maximum amount of heat from a radiator, of a given size, this is one of the most inefficient paints that can be applied.

Tests were made on the emissivity of sheetiron covered with white paint, glass enamel, aluminum paint, etc. The results obtained show that the aluminum paint emits only 27 to 30 per cent. as much as a non-metallic paint or glass enamel.

From this, however, we must not jump to the conclusion that the ordinary steam radiator can be made to emit three times as much heat by applying a coat of non-metallic paint. As stated in the beginning, the ordinary steam radiator is so constructed that the room becomes heated principally by thermal conduction and convection of the air which circulates over and between the sections of the radiator.

Allen† (Electrical World, Vol. 57, p. 1616; June 22, 1911) made tests on radiators coated with various substances, such as aluminum and copper bronze, terra cotta enamel, white paint, etc.

Out of about two dozen tests on various paints, he found that the aluminum and copper bronze coverings always diminished the heat dissipated by 24 to 28 per cent. below that of the non-metallic paints. In consequent tests (Jour. Amer. Soc. Heat. & Vent. Eng., 26 March, 1923) the values obtained were 17 to 20 per cent. below that of the non-metallic paints. Merely covering the aluminum paint with a coat of terra cotta enamel increased the heat transmission by some 28 per cent. This would seem to indicate that in a radiator consisting of a number of sections, the heat carried away by convection between the sections is a large percentage (Allen's values range

†The late John R. Allen, Professor of Mechanical Engineering University of Michigan.

from 50 to 73 per cent., depending upon the type of radiator) of the total heat given out, and that the heat lost by radiation from the sides of the radiator is relatively of secondary importance.

Hence, the use of a covering which is an inefficient emitter of the thermal radiation is not so serious as it would appear from our tests.

However, a gain of even 15 to 20 per cent. in heat dissipation into the room, by using a non-metallic covering, is worth considering. By non-metallic paint is meant any covering which does not have the pure metal flakes, such as bronze and aluminum. The various pigments offer a great variety of tints for decorative purposes with greater efficiency in heat dissipation.

In conclusion it may be added that it is unnecessary to remove the old coat of aluminum paint before applying the coat of non-metallic paint.

It is beyond the scope of this paper to attempt to mention the numerous applications of data of this type. Suffice it to add one or two instances of saving in fuel by reducing the loss in heat by radiation from the object which is being heated. Take, for example, an ordinary kitchen utensil, e. g., an aluminum tea kettle which is easily tarnished by contact with a gas flame. Removing the tarnish greatly shortens the time in which water can be brought to boiling by reducing the radiation from its sides. This is one of the little things but they all count in the month's gas bill.

Another example worth citing was given me by a former colleague interested in the manufacture of Portland cement. By applying a coat of aluminum paint to the outside of the kiln, he was astonished to find that the saving of fuel could be measured in tons of coal.

W. W. Coblentz.

**Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.**

**All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.**

**Many a man would do a better job if he didn't know about putty.—Ex.**



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

General Reproduction Co. ....1518 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop. ....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop. ....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
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Weil, J. H., Co. ....1315 Cherry St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News. ....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## CEMENT.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## CEMENT WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....Darby, Pa.  
Gramm, Price, Turner, Inc.,  
176 E. Tulpehocken St., Phila.

## CONCRETE WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories. ....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co. Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard. ....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## PAINTING (Plain and Decorative).

Colonial Shop, Inc. ....1222 Chancellor St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories. ....1432 S. Penn Square, Phila.

## PAPERHANGING AND DECORATING.

Sukerman, S. ....2958 N. 22nd St., Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Weber, F., Co. ....1125 Chestnut St., Phila.

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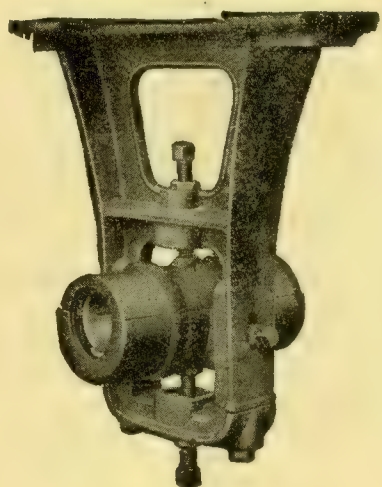
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 41  
October 10, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

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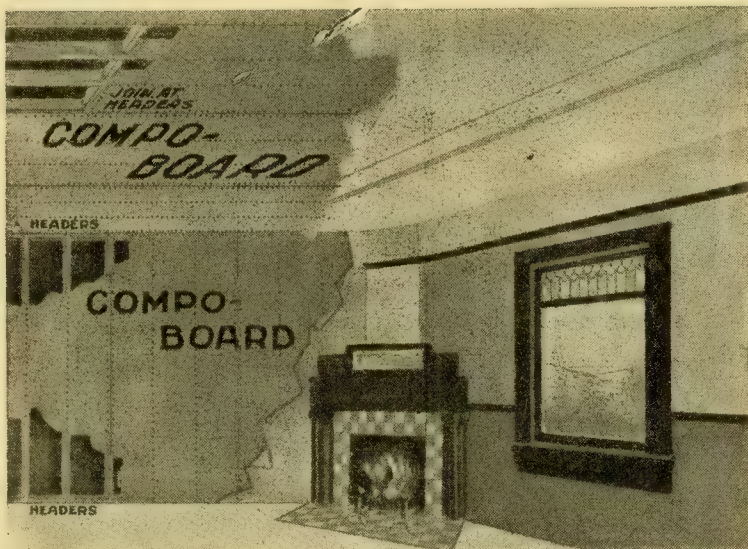
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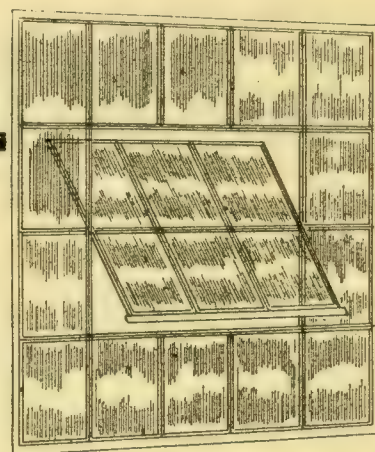
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Sale will be held under the auspices of Gerth's Realty Experts, Inc., 505 Fifth Avenue, New York City. Catalogue No. 526-A covers all details of the sale, and may be obtained from the auctioneer or the

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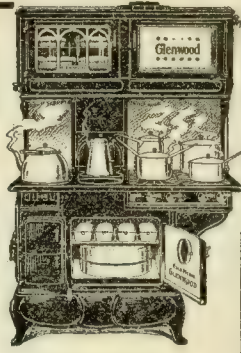


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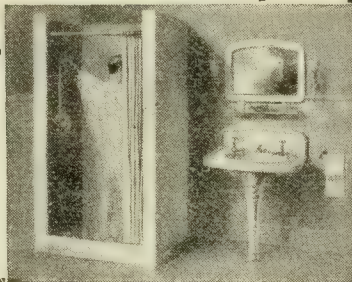
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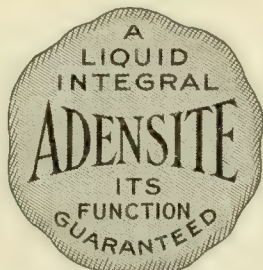
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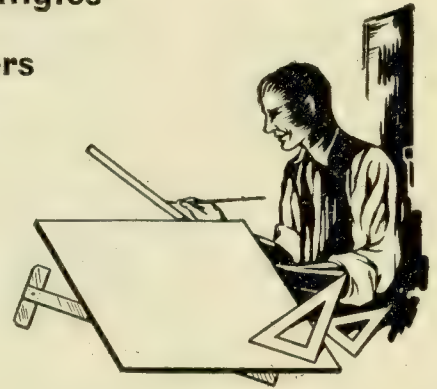
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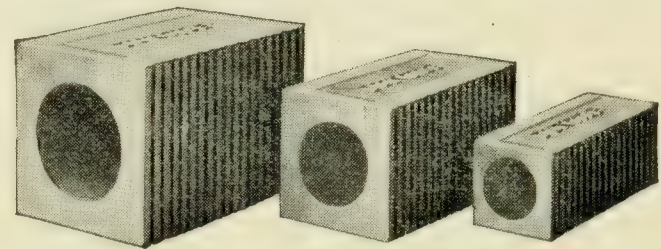


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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 41

PHILADELPHIA  
October 10, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

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## As The Editor Sees It



### REPORT ON THE ANNUAL MEETING OF THE AMERICAN CONSTRUCTION COUNCIL, NEW YORK, SEPTEMBER, 1923

The first annual meeting of the American Construction Council, following the organization meeting that took place in Washington in June, 1922, was held in New York City on Friday and Saturday, September 21st and 22nd, 1923. At its sessions some of the most pressing problems awaiting solution by the industry received practical consideration.

The meeting of the Council itself, following a meeting of the Board of Governors at the home of President Franklin D. Roosevelt in the morning which was attended by 35 members of the Board and the public, was opened by a note of welcome from President Roosevelt in which he expressed his faith in the great usefulness of the Council and its field of constructive activity for the future, which was read before the Council by Vice President John E. Lloyd, of Philadelphia. The Executive Vice President, Mr. D. Knickerbacker Boyd, served as general chairman. Executive Secretary Dwight L. Hoopingarner transmitted to the meeting the regrets of the Secretary of Commerce, Hon. Herbert Hoover, to President Roosevelt at his inability to be present, and messages of appreciation and support from others who found it impossible to be present. Mr. Boyd

then delivered an address as Executive Vice President of the Council in which he reiterated the purposes for which the Council had been formed and the major lines of activity along which it should operate.

Among the problems discussed were Local Autonomy and National Organization in the Construction Industry (How the American Construction Council should aid in the promotion of and co-operation with local building congresses); Apprenticeship, Vocational Guidance and Craftsmanship in the Construction Industry; Reduction of Unemployment in the Construction Industry; the American Construction Council's Program on Research; and What the American Construction Council Can Do to Help the Various Branches of the Industry.

Throughout the discussion emphasis was placed upon movements in actual existence or plans definitely being inaugurated by the various agencies throughout the industry and by the Council itself. Thus matters pertaining to the organization and actual operations of building construction congresses in New York City, Boston, New Jersey, Philadelphia, and Portland, Oregon, were given special attention by the speakers, the formal discussion on which was presented by Mr. Harry T. Stephens, President of the New Jersey Building Congress, Mr. Richard A. Wolff, Secretary of the New York Building Congress, Mr. James M. Gauld,

Vice President of the Boston Building Congress, and Col. F. M. Gunby, of the Boston Building Congress, with letters and papers from others.

Likewise Apprenticeship, Vocational Guidance and Craftsmanship received concrete presentation by Fred F. Moran, Managing Director of the Apprenticeship Commission of the New York Building Congress; Dr. J. C. Wright, Director of the Federal Board for Vocational Education; George Dautel, Chairman of the Apprenticeship Committee for Bricklayers, Cleveland, Ohio; James M. Gauld, Vice President of the Boston Building Congress, and Col. F. M. Gunby, of the Boston Building Congress, and others.

Reduction of Unemployment in the Construction Industry received attention through a paper by Mr. A. P. Greensfelder, Vice President of the Associated General Contractors of America, St. Louis, and an address by Dr. John M. Gries, Chief of the Division of Building and Housing of the U. S. Department of Commerce.

In each case there was open discussion from the floor, participated in by numerous other persons, and the appropriate committee of the Council itself made announcement as to the activities and plans of the Council for action along the respective lines, among which was the report of Mr. F. W. Walker, Chairman of the American Construction Council's Com-

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mittee on Apprenticeship, Vocational Guidance and Craftsmanship, and the report of Mr. D. Knickerbacker Boyd, Chairman of the American Construction Council's Committee on Seasonal Unemployment. Rotating chairmen were chosen to preside for each topic, Frank C. Wight, of the *Engineering News Record*, presiding for the subject of Building Congresses, Dr. J. C. Wright, of the Federal Board for Vocational Education, presiding for the subject of Apprenticeship, W. E. Welch, of the American Society of Safety Engineers, presiding for the subject of Reduction of Unemployment, and Dwight L. Hoopingarner, Executive Secretary of the Council, presiding for the subject of What the American Construction Council can do to Help the Various Branches of the Construction Industry.

The Council's Program on Research was presented by Dwight L. Hoopingarner, speaking as Chairman of the Council's Committee on Public Information and Research, to the effect that the services of the Committee and the administrative resources of the Council are at the disposal of the industry for the prosecution of research along any and all lines that are of mutual and proper interest to the Council and the industry as a whole and for which resources might be available.

At the dinner meeting held at the Hotel Commodore on Friday evening, at which Wright D. Goss, President of the Empire Brick and Supply Company, acted as toastmaster, a searching analysis of the Council's general field of endeavor was made by Mr. E. J. Brunner editor of the *American Contractor*, of Chicago who was the speaker for the occasion. In his remarks Mr. Brunner vividly pictured the enormous field of opportunity for the Council, made up as it is by voluntary action of all elements in or affecting the industry and yet starting without the handicaps of habit and tradition in such an endeavor. At the same time, he pointed out the necessity of proceeding along paths carefully projected and of mutual interest.

There was no more significant phase of the program than that of the evening session pertaining to What the American Construction Council Can Do to Help the Various Branches of the Construction Industry, which was participated in officially by the presidents or other representatives of about twenty or more of the leading national organizations interested in the construction industry, who set forth the problems confronting their branches of the industry on which the American Construction Council can render help. Among those who participated in this discussion were:

Dean F. Paul Anderson, of the American Society of Heating and Ventilating Engineers,

M. T. Bannigan, President of the National Builders' Supply Association,

C. T. Bissel, of the National Board of Fire Underwriters,

Francis Blossom, of Sanderson and Porter,

Thomas D'A. Brophey, of the Copper & Brass Research Association,

Adelbert E. Coleman, President, National Assn. of Building Trades' Employers,

J. W. Cowper, President, Associated General Contractors of America,

Edward E. Duff Jr., Secretary, National Paving Brick Manufacturers' Association,

R. C. Gaskill, of the Atlantic County District Council of Carpenters,

James M. Gauld, Labor Representative on the Boston Building Congress,

F. M. Gunby, of the Boston Building Congress,

G. A. McGarvey, of the Federal Board for Vocational Education,

R. C. Marshall, Jr., General Manager Associated General Contractors of America,

Joshua L. Miner, of the Concrete Products Association,

M. W. O'Brien, of the National Association of Marble Dealers,

Harry T. Saunders, of the National Association of the Real Estate Boards,

W. W. Schupner, Secretary of the National American Wholesale Lumber Association,

H. T. Stephens, of the American Institute of Architects,

M. M. Upson, of the American Concrete Institute,

W. E. Welch, Past President of the American Society of Safety Engineers,

J. C. Wright, Director of the Federal Board for Vocational Education.

In brief, the great opportunity for constructive service by the Council was evidenced in the pledges for support and the discussions throughout the various sessions. Aside from the general attendance, delegates were present from the twelve constituent groups of the Council: Architects, Engineers, General Contractors, Sub-Contractors, Construction Labor; Material and Equipment Manufacturers; Material and Equipment Dealers; Financial, Surety, Bonding, Real Estate, Accounting, Insurance, Building and Loan Organizations, Chambers of Commerce, and Boards of Trade; Public Utility Construction Departments; Representatives of Federal State, County and Municipal Bureaus or Departments concerned with Construction; National Associations of Builders' Exchanges, Building Trades Employers' Associations, and similar Associations or Federations of Building interests; and the Public.

Indicative of the Council's affirmative action along some of the more important lines are the resolutions passed at the an-

(Continued on Page 654)

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**Apartment House**, Forty-eighth and Chester avenue, Philadelphia. Architect, John H. Carroll, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, 4 stories and basement, 60x135 feet, slag roof, hardwood floors, tile and terrazzo work, imitation cut stone, oil burners, incinerator, built in kitchen equipment and beds, circulating refrigerating system, push button elevators. Plans in progress.

**Dye House and Bridge**, Marshall, between Oakdale and Howell streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Hardwick & Magee Co., 1220 Market street, Philadelphia. Brick, reinforced concrete, cut stone, 1 story, 226x50 feet, slag roof, cement floors, hollow tile, safety treads, waterproofing, metal lath, rolled steel sash, fire doors, iron work and stains, cork insulation. Revised plans in progress.

**Store and Lodge Building (alts. and add.)**, Southwest Corner Twentieth and Montrose streets, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Security Realty & Cont. Co., 1403 Carpenter street, Philadelphia. Brick, 3 stories, 30x17 feet, slag roof, pine floors, fire tower, metal ceilings, plate glass, flush bulks, electric work, 1-pipe steam heat. Plans in progress.

**Building (alts. and add.)**, Queen Lane and Pulaski avenue, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Glenn & Walker, 308 West Queen Lane, Germantown, Philadelphia. Brick, 1 and 2 stories, irregular size, hot water heat, electric light, tile work, slag roof, pine floors, copper cornices. Plans in progress.

**Stores (alts.)**, Twelfth and Race streets, Philadelphia. Architect, A. Mueller, Ninth and Walnut streets, Philadelphia. Owner, Jacob Greenspan, 1425 South Eleventh street, Philadelphia. Lowering floors, general repairs, painting and glazing, roof repairs, carpentry and mill work, cement paving, tile work, electric light. Plans in progress.

**Building (alts. and add.)**, Nineteenth and Fairmount avenue, Philadelphia. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, W. A. Dunlap, care of architects. Brick, 1 story, 40x60 feet,

heating and lighting extensions, slag roof, pine floors, marble work, metal ceilings, limestone. New plans in progress.

**Stores and Apartments (8)**, Northeast Corner Thirty-seventh and Chestnut streets, Philadelphia. Architect, not yet selected. Owner, A. S. Shafer, 1701 Green St., Philadelphia. Excavation, shoring, stone masonry, tapestry brick, structural iron work, metal lath, plastering, copper store fronts, carpentry and mill work, electric wiring and fixtures, painting and glazing, metal ceilings, composition floors. Owner will build.

**Factory (alts.)**, 310 Spruce street, Philadelphia. Architect, S. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, J. Brier, on premises. Steam heat, electric light, slag roof, general alterations. Architect taking sub-bids.

**Sales and Showroom**, Northwest Corner Seventh and Spring Garden streets, Philadelphia. Architect, S. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, M. Berger, on premises. General interior alterations and new front. Owner will build.

**Station**, Sixteenth above Fairmount avenue, Philadelphia. Architect, private plans. Owner, D. Henwood, 717 South Sixty-third street, Philadelphia. Brick, 2 stories, 64x80x95 feet, steam heat, electric light, slag roof, cement floors. Owner will build and is taking sub-bids.

**Strengthening Floors**, Southeast Corner Third and Market streets, Philadelphia. Architect, Francis Canavan, 7032 Greenway avenue, Philadelphia. Owner, Walter Pollock, 18 South Seventh street, Philadelphia. Steel underpinning. Owner will be ready for new bids in one week.

**Garages (52)**, Germantown, Philadelphia. Architect, E. A. Wilson, 1208 Chestnut street, Philadelphia. Owner, H. P. Anderson, 6236 Christian street, Philadelphia. Brick, 1 story, 40x210 feet, slag roof, cement floors, plumbing, overhead doors, metal partitions. Owner taking sub-bids.

**Garage**, 634-36 Washington avenue, Philadelphia, \$10,000. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owners, C. & P. Spinnelli, on premises. Brick, 2 stories, 26x86 feet, one story, 26x161 feet, steam heat, electric light, cement floors. Owner will build.

**Garages (4)**, Sixty-third and Media streets,

Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Frank A. Fitzpatrick, 1541 North Sixtieth street, Philadelphia. Brick, 1 story, 38½x17¾ feet, slag roof, cement floors, electric light. Owner taking sub-bids.

**Garages (9)**, 1688 Foulknord street, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, W. W. Stewart, care of architect. Brick, 1 story, 24x27 feet, 6 inches, slag roof, cement floors, electric light. Owner ready for sub-bids.

**Apartment House (add.)**, 1218 Walnut street, \$2,000. Architect, H. E. Kennedy, 1324 Walnut street, Philadelphia. Owner, Louis H. Cahlan, 1324 Walnut street, Philadelphia. Tank supports. Architect will sub-let.

**Church, Sunday School and Auditorium**, Holmesburg, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Mt. Zion Baptist Church, Holmesburg, Pa. Brick, 1 story, 92x40 feet, slate roof, pine floors, steam heat, electric light. Architects ready for bids.

**Residence and Garage**, Fifty-second and Wynnefield, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Joseph Matz, 935 Sansom street, Philadelphia. Brick, cut stone, 2½ stories, 27x61 feet, slate roof, mineral, oak and pine floors (plumbing, heating and electric reserved), metal lath, tile and marble work. Architect taking new bids due October 19th.

**Theatre**, Eighteenth and Jackson streets, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, concrete and steel, 1 story, 60x133 feet, steam (1 pipe) heat, electric light, metal lath, gypsum roof, cement floors, ornamental iron work. Architects taking bids due October 12th, 5 P. M.

**Pennsylvania Building (alts.)**, Fifteenth and Chestnut streets, Philadelphia. Architect, Ralph White, Pennsylvania Building, Philadelphia. Owners, Pennsylvania Building, Fifteenth and Chestnut streets, Philadelphia. Plate glass, plastering, mosaic floors, brick work, carpentry and mill work, bulk windows. Architect taking bids due as soon as possible.

**Office Building**, Sixteenth and Arch streets, Philadelphia. Architects, Stewartson & Page, 315 South Fifteenth street, Philadelphia. Owners, Insurance Company of North America, 232 Walnut street, Philadelphia. Brick, steel and concrete, 20 stories, concrete floors, tile and marble work, metal lath, elevators. Stone & Webster, Real Estate Trust Building, will take bids in one month.

**Alterations**, third floor, 1312-16 Arch street, Philadelphia. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Carpentry and mill work, heating alterations, electric work, painting, plumbing, marbleoid and linoleum floors. Owners taking bids due as soon as possible.

**George Clymer School**, Thirteenth and Richfield streets, Philadelphia. Architect, private

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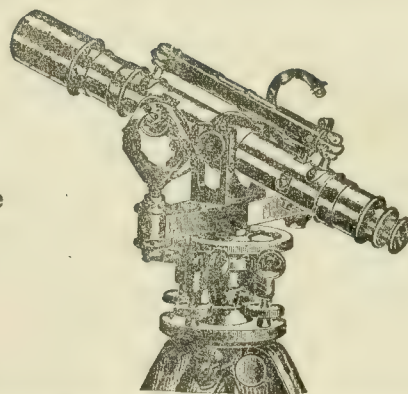
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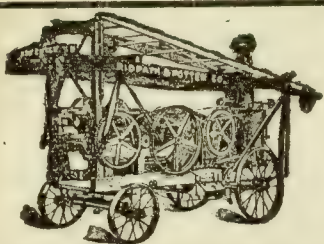
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plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. New toilet rooms, cement and concrete work, brick work, iron work, structural steel, slate roof, carpentry and mill work, plastering, painting and glazing. Low bidders: E. C. Duriell, 1713 North Thirty-fourth street, Philadelphia, \$7,615; Kober Const. Co., 34 South Seventeenth street, Philadelphia, \$9,490. Plumbing, Bullman Brothers, Fifth and Cumberland streets, \$4,366. Heating, Thompson Brothers, 520 Buttonwood street, \$864.

**Basement Stores**, Forty-ninth and Springfield avenue, \$10,000. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, Mrs. Fannie Egnal, 5414 Overbrook avenue, Philadelphia. Brick, 1 story, 30x52 feet, slag roof, metal cornices, metal lath, metal ceilings, metal tile, steel reinforcing. Owner will build.

**Northern Liberty School**, Third and Green streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Sheet metal sash, composition roof, carpentry and mill work, brick work, elevator (hand), hardware, plastering, concrete work. Low bidders: Mitchell Brothers, 2125 Race street, Philadelphia, \$16,666; Kober Const. Co., 34 South Seventeenth street, Philadelphia, \$18,760.

**Residences and Garages (21)**, Eighteenth street and Sixty-seventh avenue, \$98,400. Architect, private plans. Owner, Joseph Cutler, 1811 North Seventh street, Philadelphia. Brick, 2 stories, (14) 16x32 feet, 13x10 feet, (2) 16x50 feet, and (5) 20x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Warehouses (2)**, East and West sides Milnor street, South of Bleigh, \$40,000. Architect, private plans. Owners, L. Martin Co., Milnor and Bleigh streets, Philadelphia. Brick, 1 story, 119x89 feet, and 2 stories, 60x120 feet, slag roof, electric work, steel sash. Owners will build.

**Residences (7)**, Front and Courtland streets, Philadelphia, \$32,600. Architect, private plans. Owner, Louis Nathanson, 4653 North Tenth street, Philadelphia. Brick, 2 stories, (1) 17x31 feet and (6) 17x25 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (2)**, 6127-37 Cobb's Creek Parkway, \$17,000. Architect, private plans. Owner, Charles Armstrong, 6006 Cobb's Creek Parkway, Philadelphia. Brick, 2 stories, 17½x35 feet, 20x26 feet, hot water heat, electric light, hardwood floors, tile work. Owner will build.

**Residences (2)**, South side Evergreen avenue, West of Germantown avenue, \$6,500 each. Architect, private plans. Owner, Harry J. Schock, 143 Graver's Lane, Philadelphia. Brick, 2 stories, 13x12 feet, 18x22 feet, hot water heat, electric light, tile work. Owner will build.

**Garages (2)**, East side Trenton avenue, North of Dreer street, \$5,400 total. Architect, private plans. Owners, Robert Beatty & Brother, 2321 East Fletcher street, Philadelphia. Brick, 1 story, 47½x45 feet, 44x25 feet, slag roof, cement floors, electric lighting. Owners will build.

**Garage**, 2715 Stiles street, Philadelphia, \$3,000. Architect, private plans. Owner, J.

R. Steiger, 2716 Cabot street, Philadelphia. Brick, 1 story, 17 feet, 10 inches x 46 feet, slag roof, cement floors. Owner will build.

**Residence**, East side Seventy-sixth street, North of Este avenue, \$4,500. Architect, private plans. Owner, Frank Mazzeo, 4750 Paschall avenue, Philadelphia. Stone, 1 story, 30x14 feet, 18x32 feet, hardwood and pine floors, electric light, hot water heat. Owner will build.

**Residences (6)**, 800-10 Unruh street, Philadelphia, \$4,500 each. Architect, private plans. Owner, William G. Isles, 806 Levick street, Philadelphia. Frame, 2 stories, 14x46 feet, hot water heating, electric lighting. Owner will build.

**Moving Picture Theatre (alts.)**, Northeast Corner Seventh and Dickinson streets, Philadelphia, \$4,000. Architect, private plans. Owners, Morris Wax, et al., on premises. General alterations. Owners will build.

**Residences (2)**, East side Thirteenth street, North of Bigler street, \$5,000 each. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, 19x39 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Bridge** under Chestnut Hill Branch of Philadelphia Railway, East of Germantown, on line of proposed Cresheim Valley Drive, Philadelphia. Architect, private plans. Owners, Commissioners of Fairmount Park, Alan Corsan, civil engineer, 127 City Hall, Philadelphia. Labor, tools, material necessary for construction of skew arch, stone and concrete bridge. Owners taking bids due October 17th, 12.30 P. M.

**Paving, etc.**, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Asphalt paving, granite, block paving, material for highway repairs, steel fabric, lumber. Owners taking bids due October 16th at noon, Room 216, City Hall.

**Store and Apartments (alts. and add.)**, Southeast Corner Sixteenth and Christian. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Landers, Northeast Corner Sixteenth and Christian streets. General alterations and additions. Architect ready for bids.

**Building (alts.)**, 823-25 Filbert street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Strawbridge & Clothier, Eighth and Market streets, Philadelphia. Strengthening floors. Architects taking bids due October 11th, noon.

**Stores and Apartments**, Southwest Corner Thirty-ninth and Walnut streets, Philadelphia. Architect, W. L. Charr, 149 South Fourth street, Philadelphia. Owners, Bogash & Klutsch, Victory Building, Philadelphia. Brick, 3 stories, 50x122 feet, demolition, hot water heat, electric light, tile and marble work, hollow metal skylights, flush bulks, metal lath, pine floors, slag roof. Architect taking bids due at once.

**Residences (2)**, West side Lawndale avenue, South of Benner street, \$4,200 each. Owner, Samuel Stubbs, Wildwood, N. J. Brick, 2 stories, 16x42 feet, hot water heat, electric work. Owner will build.

**Garage**, 3001 Cedar avenue, Philadelphia, \$3,500. Owner, Eugene L. Zobel, 2997 Cedar avenue, Philadelphia. Brick, 1 story, 17x65 feet, slag roof, cement floors. Owner will

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build.

**Garage**, 7922 Lyons avenue (rear), Philadelphia, \$2,200. Architect, private plans.

Owner, Frank Badin, on premises. Brick, 1 story, 30x50 feet, slag roof, cement floor. Owner will build.

## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residence**, East side Conarroe street, East of Ridge avenue, Philadelphia, \$6,500. Architect, private plans. Owner, Fred D. Bair, East Green Lane, Roxboro, Philadelphia. Brick, 2 stories, 20x32 feet, hot water heat, hardwood and pine floors, electric light. Contract awarded Adam Wilkinson, Harmon Road, Philadelphia.

**Residence (add.)**, 4090 Olive street, Philadelphia, \$2,100. Architect, private plans. Owner, Mary Campbell, on premises. Brick, 2 stories, 11x14 feet, carpentry and mill work, electric. Contract awarded Harry G. Warner 4119 Haverford avenue, Philadelphia.

**Stores and Apartments (alts. and add.)**, 8618 Germantown avenue, \$61,000. Architect, A. H. Brickie, 254 South Fifteenth street, Philadelphia. Owner, Miss E. M. Huston, 8616-18 Germantown avenue, Philadelphia. Brick, stone, 2 stories, 40x32 feet, hot water heat, electric light, tile and marble work, slag roof, pine floors, elevators, roof ventilators, rolled steel sash, kalamein doors, store fixtures, dumb waiters. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

**Residence (alts. and add.)**, 1408 North Second street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, James P. Mallon, on premises. New front, brick and stone, hardwood floors, carpentry and mill work, plastering, painting and glazing. Contract awarded Otto Malz & Son, 2002 North Fourth street, Philadelphia.

**Factory**, 107-115 Race street, Philadelphia, \$160,000. Architect, C. E. Wunder, 1415 Locust street, Philadelphia. Owner, J. Frank Shelenberger, Front and Race streets, Philadelphia. Brick, concrete, cut stone, 5 stories, 94x71 feet (plumbing, heating, electric light, elevators, tanks reserved), slag roof, granite block floors, hollow tile, waterproofing and dampproofing, terra cotta, iron work, bond, rolled steel fire and kalamein doors, rolled steel sash and skylights, tile and marble work. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

**Bank**, 2728 East Allegheny avenue, Philadelphia. Architects, Simon, Brittain & English, 929 Chestnut street, Philadelphia. Owners, Richmond Bank, care of M. C. Kornovowisky, treasurer, on premises. Brick, limestone, steel, 1 story, 26x57 feet, slag roof, pine floors, steam heat, electric light, tile and marble work, ornamental iron work. Contract

awarded Simon, Brittain & English, 929 Chestnut street, Philadelphia.

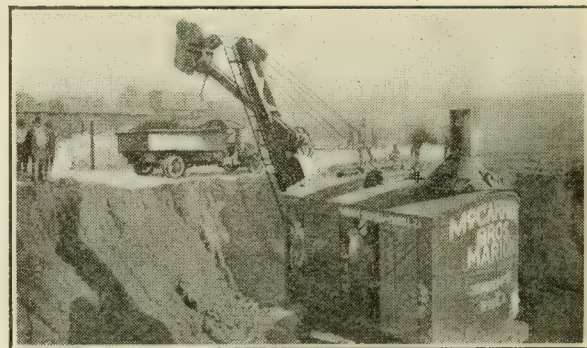
**Louis Eisenlohr Memorial Home for Nurses**, Broad and Wolf streets. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Methodist Episcopal Hospital, on premises. Brick, reinforced concrete, limestone, 4 stories, 92x36 feet, vacuum heat, electric light, metal bath, slate tile, marble and terrazzo work, rolled steel sash, kalamein and hollow metal doors, iron work, waterproofing and dampproofing, metal weather strips, tile, pine and oak floors, composition and tile roof. Contract awarded Cramp & Co., Denekla Building, Philadelphia.

**Residence (alts. and add.) and Garage**, 5860 Woodbine avenue, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, C. B. Joy, 1420 Chestnut street, Philadelphia. Hollow tile and stucco, 2 stories, 13x19 feet, 1 story, 6x10 feet, garage, 27x29 feet, 1 story, steam heat, electric light oak floors, shingle roof, tile work. Contract awarded Edward Canny, 6021 Sansom street, Philadelphia.

**Exchange Building**, Northeast Corner Seventeenth and Lombard streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, stone, steel, 3 stories, 75x220 feet, steam heat, electric light, tile and marble work, slag roof, hardwood and cement floors, elevators, iron work. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Cohocksink Recreation Building**, Ann, Cedar and Cambria streets, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, City of Philadelphia, Bureau of Recreation, 595 City Hall. Contract awarded J. B. Kelly, 2315 Walnut street, Philadelphia, \$95,000.

**Factory**, Second and Erie avenue, Philadelphia, \$23,300. Architect, private plans. Owners, Certainteed Roofing Products Co., on premises. Brick, steel, 205x28 feet, 22x40 feet, Certainteed roof, concrete floors, rolled steel sash, bond, roof ventilators, ornamental



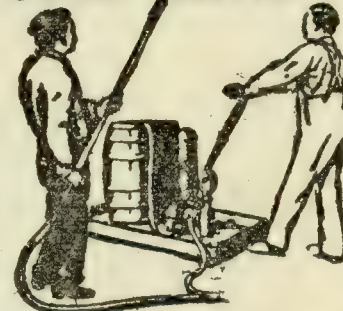
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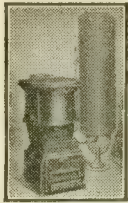
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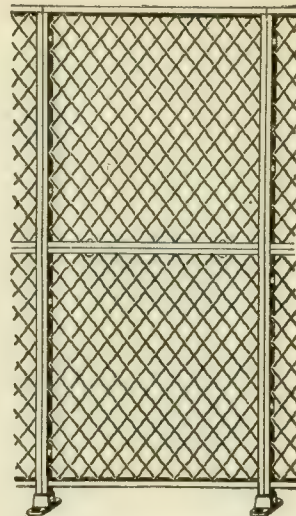
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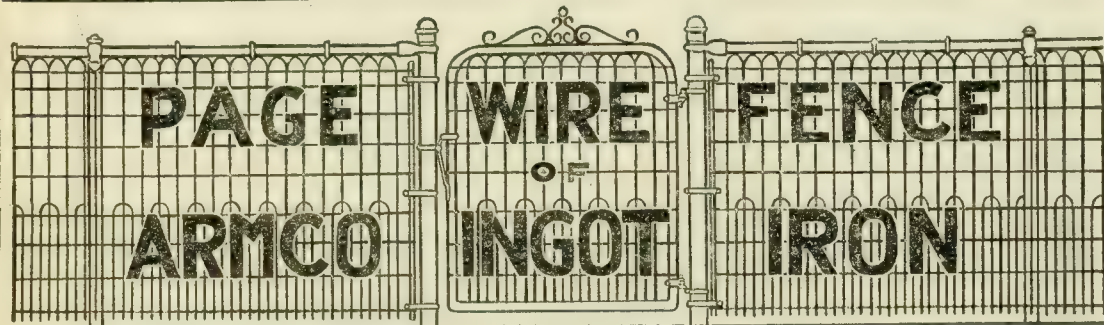


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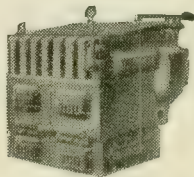
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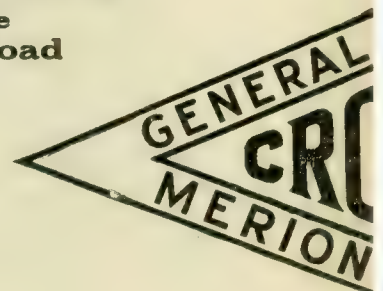
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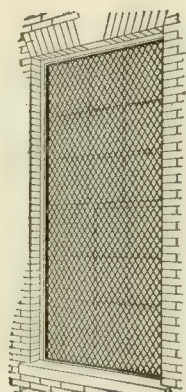
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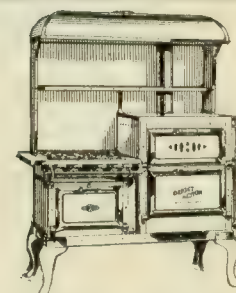
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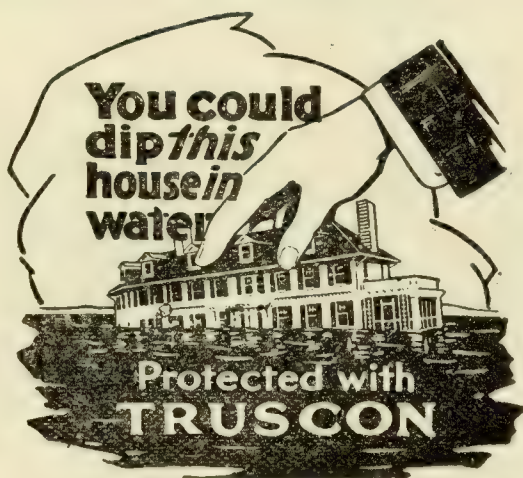
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iron work. Contract awarded E. S. Tillotson, 236 Dickinson avenue, Swarthmore, Pa.

**Factory (alts. and add.),** 2122 Dakota street, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, Morris Starrels & Co., on premises. Brick, 2 stories, 18x89 feet (heating, lighting, plumbing reserved), slag roof, pine floors, dumb waiters. Contract awarded J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia.

**Fire Repairs,** 1205-07 Kenilworth street, Philadelphia. Architect, private plans. Owner, Robert Lloyd, 712 Walnut street, Philadelphia. Plastering, painting and glazing, brick work, slag roof, carpentry and mill work. Contract awarded George H. Evans, Inc., 105 North Thirteenth street, Philadelphia.

**Store and Apartment (alts. and add.),** Thirtieth and Woodland avenue, Philadelphia. Owner, Charles Musi, care of architect. Brick, 3 stories, 16x20 feet, hot water heat, electric light, slag roof, pine and composition floors. Contract awarded Felix Claro, 5349 Webster street, Philadelphia.

**Manufacturing Building,** Southeast Corner Fifty-first and Botanic avenue, Philadelphia, \$200,000. Architect, private plans. Owners, George W. Smith & Co., Forty-ninth and Botanic avenue, Philadelphia. Brick, steel and concrete, 1 story, 210x370 feet, slag roof, concrete floors, waterproofing, steel sash, steam heat, electric light. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Residences (14),** Cottman and Dorcas streets, Philadelphia, \$64,000. Architect, private plans. Owner, C. Theo. Beechwood, 5537 Frankford avenue, Philadelphia. Brick, 2 stories, (2) 16x46 feet, and (12) 16x28 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Joseph P. McDevitt, 5537 Frankford avenue.

**Garage (add.),** 1010-12 West Venango street, Philadelphia, \$22,500. Architect, private plans. Owners, Goeltz & Gerlach, on premises. Brick, 1 story add., 100x120 feet, irregular, slag roof, cement floors. Contract awarded to J. Fleischer & Sons, 739 Roosevelt Boulevard.

**Coal Pocket (repairs),** Fifty-third and Thomas avenue, Philadelphia, \$10,000. Architect, private plans. Owners, George B. Newton Coal Co., Franklin Bank Building, Philadelphia. General fire repairs. Contract awarded to Armstrong & Latta, 1926 Sansom street, Philadelphia.

**Residence,** North side Princeton avenue, West of Castor Road, \$8,000. Architect, private plans. Owner, William J. Simpson, Neshaminy Falls, Pa. Frame, 2 stories, 27x42 feet, hardwood floors, hot water heat, electric light, tile work. Contract awarded to John E. Miller, Neshaminy Falls, Pa.

**Shop and Storage Building,** Southwest Corner Mascher and Duncannon streets, \$55,000. Architect, private plans. Owners, Olney Foundry Co., 180 Duncannon street, Philadelphia. Brick, 2 stories, 79x164 feet, steam heat, electric light, slag roof. Contract awarded

to Northern Const. Co., 515 Fisher's avenue, Philadelphia.

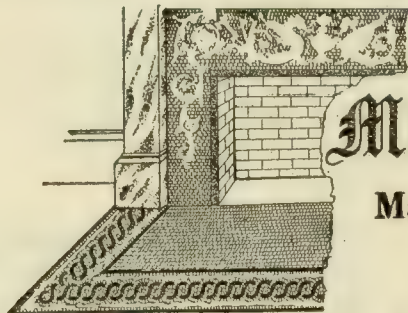
**Garage (add.),** 2306-08 North Sydenham street, Philadelphia, \$11,000. Architect, private plans. Owner, William Gaffigan, on premises. Brick, 1 story add, 35 feet, 8 inches x 85 feet, slag roof, cement floors, slag roof, steam heat, steel sash, electric work. Contract awarded to Edward M. Carny, 6021 Sansom street, Philadelphia.

**Residences (2),** West side Argyle street, South of Levick street, \$6,300 each. Architect, private plans. Owner, Joseph A. Balzer, 3925 North Darien street, Philadelphia. Stone and frame, 2 stories, 16x42 feet, hardwood and pine floors, tile work, steam heating, electric lighting. Contract awarded to H. A. Hopple, Heed Building, Philadelphia.

**Warehouse,** Southeast Corner Howard and Clearfield streets, \$6,000. Architect, private plans. Owners, Franklin Process Co., on premises. Standard Truscon Pressed Steel building, 1 story, 40x68 feet. Contract awarded to Truscon Steel Co., 1432 South Penn Square.

**Residence,** Southeast Corner Sixth street and Sixty-fourth avenue, Philadelphia, \$24,000. Architect, private plans. Owner, E. McMaster, Southeast Corner Fairhill street and Cheltenham avenue. Stone, 3 stories, 45x28 feet, 19x7 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Louis Braennig, Fairhill and Cheltenham avenue.

**Residence,** North side Shuns Lane, East of



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Tower street, \$5,000. Architect, private plans. Owner, Stanley Gaski, 134 Shurs Lane, Philadelphia. Brick, 2 stories, 16x37 feet, hot air heat, electric light, slag roof. Contract awarded to William Lontz, 239 Roxboro avenue, Philadelphia.

**Garage**, Southeast Corner Third and Gribstown Road, Philadelphia, \$5,300. Architect, private plans. Owner, Harry Beckman, 5807 North Third street, Philadelphia. Brick, 1 story, 18x110 feet, slag roof, cement floors. Contract awarded to Pitt & Forster, 5753 North Fifth street, Philadelphia.

**Residences (2)**, South side Fuller street, West of Castor, \$5,500 each. Architect, private plans. Owner, Eugene L. Keller, 108 West Allegheny avenue, Philadelphia. Frame, 2 stories, 16x38 feet, hot water heat, electric light. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Store and Residence (alts. and add.)**, 1835 West Columbia avenue, \$11,500. Architect, private plans. Owner, A. Miller, 905 Wyoming avenue, Philadelphia. Brick, 3 stories add., 11x32 feet, general alterations. Contract awarded to M. Yachnitz, 4544 North Warnock street, Philadelphia.

**Garage**, 114-16 North Twenty-second street, Philadelphia, \$6,000. Architect, private plans. Owner, Daniel Dever, 1636 Market street, Philadelphia. Brick, 1 story, 38x100 feet, slag roof, cement floors. Contract awarded to John Welsh, 5222 Green street, Philadelphia.

**Warehouse**, 2118-20 Vine street, Philadelphia, \$10,500. Architect, private plans. Owner, Benjamin Alexander, 505 West End Trust Building, Philadelphia. Brick, 1 story, 48x99 feet, slag roof, electric lighting. Contract awarded to Frank Lucci, 1608 Ellsworth street, Philadelphia.

**Church (add.)**, 32-34 Sharpnack street, Philadelphia, \$14,000. Owners, Grace Baptist Church, on premises. Stone, 1 story, 29x33½ feet, slate roof, electric work, steam heat. Contract awarded to Henry P. Schneider, 3713 Old York Road.

**Church**, Southeast Corner Cedar Park avenue and Pittville avenue, \$8,500. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, United Presbyterian Church of Philadelphia, care of builder. Frame, 1 story, 32x65 feet, electric lighting, shingle roof. Contract awarded to Robert Killough, Wayne avenue and Duval street.

**Laundry (alts. and add.)**, Northeast Corner Moyamensing avenue and Wilder street, \$4,000. Architect, private plans. Owner, J. Holen, 1337 South Fourth street, Philadelphia.

phia. Brick, 2 story add., 9x30 feet, general alterations. Contract awarded to M. Friedman, 411 Snyder avenue, Philadelphia.

**Residences (2)**, Lawndale avenue, North of Levick street, \$4,500 each. Architect, private plans. Owner, Fred Arndt, 806 Levick street, Philadelphia. Frame, 2 stories, 14x46 feet, slag roof, hot water heat, electric work. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

**Residences (2)**, South side Erwig avenue, East of Seventy-eighth street, \$4,000 each. Architect, private plans. Owner, H. Nieni, 7726 Laycock avenue, Philadelphia. Hollow tile and stucco, 2 stories, 14x12 feet, 17x14 feet, steam heat, electric light, hardwood and pine floors. Contract awarded to John Rae, 7748 Laycock avenue, Philadelphia.

**Residences (2)**, Magee street, East Oakley street, \$4,500 each. Architect, private plans. Owner, John Corbett, 809 Levick street, Philadelphia. Frame, 2 stories, 14x46 feet, hot water heating, electric lighting. Contract awarded to William G. Isles, 806 Levick street, Philadelphia.

**Residence**, North side Oxford Pike, East of Verree Road, \$4,500. Architect, private plans. Owner, G. Blind, 2636 North Bouvier street, Philadelphia. Stucco and frame, 1 story, 24x37 feet, electric light, oak floors. Contract awarded to E. Hopkinson, 4406 North Marshall street.

**Residence and Store (add. and alts.)**, 2816 West Lehigh avenue, \$3,900. Owner, James Quigley, 2931 West Lehigh avenue, Philadelphia. Brick, 1 story, 12x10 feet, 7x4 feet and 13x7 feet, alterations. Contract awarded to William Cole, 2720 West Lehigh avenue, Philadelphia.

**Residence and Store (alts.) and Garage**, 2101 West Norris street, \$3,000. Architect, private plans. Owner, Samuel Berk, 2015 North Twenty-second street, Philadelphia. General alterations to store and dwelling. Garage, 1 story, brick, 10x19 feet, cement floors. Contract awarded to David Zatt, 1010 East Tioga street, Philadelphia.

**Garage**, 613-15 McClellan street, Philadelphia, \$3,900. Architect, private plans. Owners, J. Frank & Son, 612 Moore street, Philadelphia. Brick, 1 story, 31x42 feet, slag roof, cement floors. Contract awarded to I. Levy, 1404 South Sixth street, Philadelphia.

**Store and Residence (alts.)**, Southeast Corner Eighteenth and Green streets, \$2,500. Architect, private plans. Owner, M. C. Newpher, on premises. General alterations. Contract awarded to Carr & Courtney, Twenty-third and Green streets.

**Residence and Store (add.)**, 8327 Eastwick avenue, \$3,200. Architect, private plans. Owner, John Arlymonrez, 8327 Eastwick avenue, Philadelphia. Brick, 1 story add., 15½x12

feet, slag roof, pine floors. Contract awarded to I. Kapman, 7904 Eastwick avenue, Philadelphia.

**Garage (repairs)**, 1214 Bainbridge street, Philadelphia, \$2,700. Architect, private plans. Owner, William Zuckerman, 1216 Bainbridge street, Philadelphia. General fire repairs. Contract awarded to F. B. Davis & Son, 240 North Sixteenth street.

**Garage**, Northeast Corner Seventh street and Sixty-fifth avenue, Philadelphia, \$2,100. Architect, private plans. Owner, E. W. Elcome, 6501 North Seventh street, Philadelphia. Stone, 1 story, 23x15 feet, slate roof, cement floors. Contract awarded to Charles G. Oswald, Elkins Park, Pa.

**Residence**, North side Aldine street, East of Whitaker avenue, \$2,800. Architect, private plans. Owner, Mrs. Leona Fanns, 715 Spruce street, Philadelphia. Frame, 1 story, 22x28 feet, pine floors, electric work. Contract awarded to Alex. Base, 5547 Linmore street, Philadelphia.

**Residence and Store (alts.)**, 1770 West Girard avenue, \$2,500. Architect, private plans. Owner, William S. Driver Estate, on premises.

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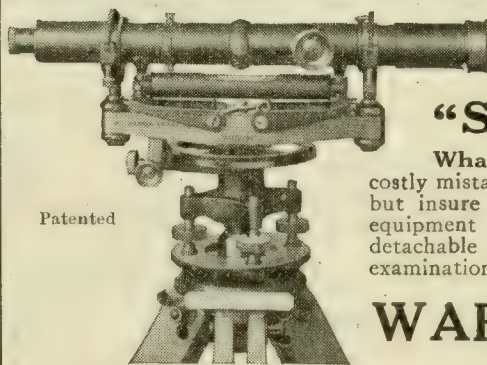
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ises. General alterations. Contract awarded to Paul Brosz, 2511 West Huntingdon street.

**Store and Warehouse (add.),** 108½ Spruce street, Philadelphia, \$2,200. Owner, Louis Di Giacomo, on premises. Brick, 2 stories add., 12x40 feet. Contract awarded to Frank Donato, 1423 South Eighth street, Philadelphia.

**Shop,** 1222 North Marshall street (rear), Philadelphia, \$2,200. Architect, private plans. Owner, Mr. Gotlieb, care of builder. Brick, 1 story, 26x46 feet, slag roof, pine floors. Contract awarded to David Copeland 1218 North Seventh street.

## Pennsylvania Construction News

**Residences (12),** New Holland avenue, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, F. B. Trissler, 405 North Duke street, Lancaster, Pa. Brick, 2 stories, 20x28 feet. Work contemplated.

**Brunswick Hotel (add.),** Lancaster, Pa., \$300,000. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Brunswick Hotel Co., A. J. M. McConomy, president, Lancaster, Pa. Brick and terra cotta, 12 stories, 80x85 feet. Sketches in progress.

**Garage and Service Station,** Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, name withheld. Brick, steel, 1 story, 50x200 feet. Preliminary plans in progress.

**Stores (2) and Apartments (4) (alts. and add.),** Marietta, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Barr Spangler, Marietta, Pa. Brick 3 stories, 30x40 feet, general interior and exterior alterations. Plans in progress.

**Residence and Garage,** Chest Mill Road, Wyncote, Pa. Architects, Zantzing, Borie & Medary, Otis Building, Philadelphia. Owner, B. Lippincott, care of architect. Brick and stucco, 2½ stories, 25x40 feet, shingle and canvas roof, oak and pine floors, tile work, electric light, hot water heat. Revised plans in progress.

**Repair Shop,** Fifteenth and Vernon streets, Harrisburg, Pa., \$20,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Harrisburg School Board, Dr. C. H. Garwood, superintendent, Harrisburg, Pa. Architect selected.

**School (W. S. Steel School) (add.),** Fifth and Radnor streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Harrisburg School Board, Dr. C. H. Garwood, superintendent, Harrisburg, Pa. Architect selected.

**Church (alts. and add.),** Spruce and Arch streets, Norristown, Pa. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, African Episcopal Union Church of Norristown, E. W. Chippy, Norristown, Pa. Brick and stucco, 2½ stories, 24x20 feet, hot water heat, electric light, slate or slag roof, pine floors, plumbing. Plans in progress.

**Residences (30),** George street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Walter C. Zook, 311 North Queen street, Lancaster, Pa. Brick, 2 stories, 14x23 feet. Plans in progress. Owner will build.

**Residences (20),** Ocean street, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Walter C. Zook, 311 North Queen street, Lancaster, Pa. Brick, 2 stories, 14x28 feet. Plans in progress. Owner will build.

**High School Building,** between West Marshall, Selma street and Forrest avenue, Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, School District of Norristown, Clarence I. Moore, secretary of Special Building Committee of School District, High School Annex, 717 Dekalb street, Norristown, Pa. General construction (plumbing, heating, electric and ventilators separate bids). Deposit, \$25. Refund, \$25. Plans and specifications may be obtained from architect or owner. Certified check must accompany each bid. Owners taking bids due October 30th, 8 P. M.

**Residence,** Ardmore, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, William Fitzmiller, care of architects. Brick and stone, 2½ stories, 82x46 feet (plumbing, heating and electric reserved), shingle roof, oak and pine floors, tile work, iron work. Architect taking bids due October 13th.

**Majestic Theatre and Hotel,** Broad street, Tamaqua, Pa. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owners, P. J. Higgins Hotel Co., Tamaqua, Pa. Brick, concrete, steel, cut stone, 5 stories and basement, 54x150 feet, theatre capacity 1800, built-up roof, composition, hardwood, tile floors, electric light, hot air and vapor heat, marque, elevators, roof ventilators, flag poles, hollow metal and fire doors, hollow metal sash, tile and marble work. Architect taking bids due October 24th.

**Club House (alts. and add.),** Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, St. Aloysius' Society, H. Spiegel, South Bethlehem, Pa. Brick, 2 and 3 stories, 110x80 feet, composition roof, hardwood floors, hollow tile, safety treads, roof ventilators, steam heat, electric light, metal lath, tile and terrazzo work, rolled steel sash. Architects taking bids due October 11th.

**School (high),** Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, School Board of Lancaster, K. J. Newell, Lancaster. Brick, concrete, steel, 3 stories, 219x200 feet, built-up roof, hardwood floors (heating, electric work, plumbing and ventilating reserved), hollow tile, safety treads, roof ventilators, tile and marble work, waterproofing and dampproofing, iron stairs. Owners taking bids due October 30th.

**Residence,** Bethlehem, Pa. Architect, W. J. Chemy, 70 East Forty-fifth street, New York. Owner, Royal Mattice, 309 East Market street, Bethlehem, Pa. Stone and brick, 2 stories, shingle roof, hardwood floors, electric lighting (heating reserved). Owner taking sub-bids.

**Store and Apartments (alts.),** Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, William Jacobs, Main street, Royersford, Pa. Brick, 3 stories and basement, 27x90 feet, slate and tin roof, composition floors, bond (heating,

plumbing and electric fixtures reserved). Plans in progress.

**Twin Residences,** Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Frank L. Walley, Broad street, Spring City, Pa. Brick and cement blocks, 2½ stories, 36x34 feet, asbestos shingle roof, yellow pine floors, cement blocks, pipeless heating (heating, plumbing and electric work reserved), wood sash, Morgan doors. Plans completed. Owner will build.

**Cold Storage Building,** North George street, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, P. Tassia, 156 North George street, York, Pa. Fireproof, 3 stories, 33x120 feet, slag roof. Plans in progress.

**Residences and Garages (5),** Elmwood, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, Central Development Co., care of architect. Frame and stucco, 2½ stories, 36x22 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

## Pennsylvania Contracts Awarded

**Ogontz Central Office Building (alts. and add.),** Jenkintown, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, stone, limestone, steel, 2 stories and basement, 109x31 feet, slate roof, cement floors, electric light, steam heat, metal lath, tile work. Contract awarded J. N. Gill Const. Co., Otis Building, Philadelphia.

**Warehouse (alts. and add.),** Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consolidated Cigar Corp., Prince and Lemon streets, Lancaster, Pa. Brick, steel, 1 story and basement, 80x80 feet, slag roof, concrete floors, electric light, rolled steel sash, fire doors, freight elevators. Contract awarded to J. H. Wickensham, Breneman Building, Lancaster, Pa.

**Residence,** Elkins Park, Pa. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, M. Aarons, care of architect. Frame and stucco, 2½ stories, 40x40 feet, electric lighting, hardwood floors, asbestos shingle roof. Contract awarded Roy Randall, Horsham, Pa.

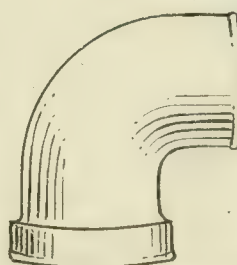
**Hospital,** Basin and Powell streets, Norristown, Pa. Architect, Harry Gordon McMurtree, 1012 Walnut street, Philadelphia. Owners, Montgomery Hospital, Norristown, Pa. Brick, stone, steel, concrete, 2 stories and basement 42x72 feet, asphalt shingle roof, cement floors, marble work (plumbing, heating, electric, tile work, elevators, hospital equipment reserved). Contract awarded Frank Schuler, Norristown, Pa.

**Temporary Chapel,** West Norristown, Pa. Consulting architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Francis' Roman Catholic Church, F. J. Ross, D. D., West Norristown, Pa. Frame plas-

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tered, 1 story, 36x75 feet, steam or hot water heat, electric light, tin roof, pine floors. Contract awarded Frank Schuler, Norristown, Pa.

**Road Work**, Pennsylvania. Owners, State Highway Department, Harrisburg, Pa. Northampton County, A-2222-3-4, Washington and Plainfield Townships and Bangor Borough, \$378,232.74 (August 8th letting). Contract awarded to W. Grant Raub, Red Lion, Pa.

**Store (alts. and add.)**, York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, York Auto Supply Co., 309 West Market street, York. Brick, 1 story, 30x60 feet, slag roof, pine floors, electric lighting, tile and marble work, store front. Contract awarded to Hess Brothers, York, Pa.

**Garage, Apartment and Show Room**, York, Pa. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, R. C. Keller Motor Co., 325 East Market street, York, Pa. Brick, reinforced concrete, terra cotta, 1 and 2 stories, 83x230 feet, slag roof, hardwood and concrete floors, hollow tile, waterproofing and dampproofing, blower system, electric light, metal lath, tile work, rolled steel sash, fire doors, floor hardener. Contract awarded to Hess Brothers, York, Pa.

## New Jersey Construction News

**Sales and Service Station**, Haddon avenue, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, name withheld. Brick, 1 story, 40x65 feet, cement floor, steam heat, slag roof. Plans in progress.

**Residence (alts.) to Apartment**, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, N. A. K. Bugbee, 206 East Hanover street, Trenton, N. J. New store front, partitions, electric work, hardwood floors, general interior alterations. Plans in progress.

**Store and Apartment**, 717 Broadway, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Charles Swartley, care of architect. Brick, 2 stories, 15x96 feet, hot water heat, tile work, hardwood floors. Plans in progress.

**Operation of Residences**, Thirty-second and Westfield avenue, Camden, N. J. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Hitchner & Todd, 2623 Westfield avenue, Camden, N. J. Brick, 2 stories, 18x32 feet, 16x40 feet, slag and tin roof, electric light, hot water heat, metal lath, tile work, cement work, garages in basement. Plans in progress. Owner will take sub-bids in 3 weeks.

**Residence**, Atlantic City, N. J. Architects, Druekenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, Louis Burk, Third and Girard avenue, Philadelphia. Frame and plaster, 2½ stories, 35x41 feet, 6 inches, shingle roof, tile and pine floors, plumbing, tile and marble work, electric light. Architects taking bids due October 15th.

**Sewage Disposal Plant**, Morris Plains, N. J., \$73,500. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Hospital, Morris Plains, N. J. Tanks (4), reinforced concrete, 225x160x6 feet; walls, 18½ inches; house, brick, 1 story, 26x18 feet, slate roof; (4) sand beds, 59x204 feet, underdrained with tile pipe 12-inch open joint vit. T. C., wood troughs, 1 main, 4 laterals. Architects taking bids due October 18th.

**Church**, Moorestown, N. J. Architect, George I. Lovatt, 420 Walnut street, Philadelphia. Owners, Our Lady of Good Council Roman Catholic Church, Rev. J. B. Hend-

rick, Moorestown, N. J. Brick, lath, 53x88 feet, steam heat, electric light, metal lath, slate roof, iron work. Architect taking bids due October 11th, 9.30 A. M.

**Residence**, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, Frank Russo, Bellevue and Hermitage avenues, Trenton, N. J. Brick, 2½ stories, 36x24 feet, slate roof, hardwood floors, steam or hot water heat, electric light, tile work. Owner will build.

**Residences (3)**, Trenton, N. J., \$3,600 each. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, Frank Russo, Bellevue and Hermitage avenues, Trenton, N. J. Brick, 2½ stories, 32x44 feet, slate or tin roof, pine floors, hot water heat, electric light. Owner will build.

**Public School**, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, Woodbury, N. J. Brick, cut stone, cast stone, reinforced concrete, steel, 2 stories and basement, 191x64 feet, wing 174x74 feet, slag roof, maple floors, metal lath, sheet metal skylights, kalamein doors, bond, floor hardener, iron work, safety treads, roof ventilators, waterproofing. Low bidders: T. M. Gibbs Const. Co., 215 South Broad street, \$296,983; Turner Const. Co., 1713 Sansom street, Philadelphia, \$307,840. Plumbing, William Newell, 1707 Sansom street, Philadelphia, \$14,866. Electric, Enterprise Electric Co., 239 South Tenth street, Philadelphia, \$11,399. Heating, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, \$38,961.

**Y. W. C. A. Building**, Hanover street, Trenton, N. J. Associate architects, William Thompson, 342 Madison avenue, New York, and J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Y. W. C. A., Mrs. Edward Dunham, 365 West State street, Trenton. Architects taking bids due October 17th. Note extension.

## New Jersey Contracts Awarded

**Extension to Building No. 31**, Camden, N. J. Architect, private plans. Owners, McAndrews & Forbes, Camden, N. J. Brick, steel, 1 story, 181x67 feet, slag roof, cement floors, rolled steel sash and skylights, fire doors, ornamental iron work. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

**Office Building**, 226 Chester avenue, Moorestown, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, The Moorestown Chronicle, Moorestown, N. J. Brick and hollow tile, 2 stories, 30x24 feet, slag roof, hardwood floors, hot water heat. Contract awarded to Richard Aitken, Moorestown, N. J., \$7,000.

**Store**, 2503-05 Federal street, Camden, N. J., \$19,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Louis Kotlikoff, 2507 Federal street, Camden, N. J. Brick, 2 stories, 40x90 feet, slag roof, pine floors, hot water heat, electric light, tile work, roof ventilators, skylights. Contract awarded to Wesley H. Bauck, 154 North Twenty-fourth street, Camden.

**Apartment (alts. and add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Dr. William J. Hall, 438 East State street, Trenton, N. J. Brick, 3 stories, 34x60 feet, slag roof, hardwood floors, electric light, tile work. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

**Residence**, Division street, Trenton, N. J., \$10,000. Architect, private plans. Owner, Edward Reeger, 1423 South Broad street, Trenton, N. J. Brick, 2½ stories, 14x42 feet, slate roof, pine floors, hot air heat, electric light. Contract awarded to G. H. Angel, Trenton, N. J.

**Store and Apartment (alts.)**, South Warren street, Trenton, \$5,000. Architect, private plans. Owner, Edward Reeger, 1423 South Broad street, Trenton, N. J. General interior alterations. Contract awarded to G. H. Angel, Trenton, N. J.

**Residences (2)**, Trenton, N. J., \$8,000. Architect, private plans. Owner, T. A. Welger, 24 Garfield avenue, Trenton, N. J. Brick and frame, 2½ stories, 28x49 feet, slate roof, hot water heat, electric light. Contract awarded to A. J. Geiger, 505 Dayton street, Trenton.

## Miscellaneous Construction News

**Garage**, South side Road street, East of South Swan street, Albany, N. Y. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. B. Stratton Motor Co., Inc., Albany, N. Y. Reinforced concrete and steel, 3 stories, 118x139x95 feet, 6 inches, slag roof, cement floors, elevator, sprinkler system, rolled steel sash, electric work, plumbing, heating and ventilating plant. Plans in progress. Architects taking bids due Oct. 22nd at noon.

**Garage (add.)**, Hagerstown, Md. Architect, H. E. Yessler, Schmidt Building, York, Pa. Owners, Ludwig Motor Co., Hagerstown, Md. Brick, steel, 2 stories, 80x175 feet, concrete floors, steel trusses, rolled steel sash, floor hardener. Plans in progress.

## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 3, 1923. Sealed Proposals will be opened in this office at 3 P. M., November 5, 1923, for the construction of a one-story brick and tile non-fireproof Post Office building, approximately 62 by 64 feet in size, at Hoosick Falls, N. Y. Drawings and specifications may be obtained from the Custodian of the site at Hoosick Falls, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Oct. 6, 1923. Sealed proposals will be opened in this office at 3 P. M., Oct. 29, 1923, for construction of concrete sidewalks, curbs, and

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copings and temporary lot line fence at the U. S. Post Office, Front Royal, Va. Drawings and specifications may be obtained from Custodian of the building or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from Page 644)

nual meeting of the Board of Governors, held in conjunction with the meeting of the Council itself, which are as follows:

### 1. Construction Congresses

Recognizing the need of promoting the organization of local building construction congresses throughout the various construction centers of the country where none already exist and with the desire to cooperate in every appropriate manner with such congresses as already exist in the establishment of others, the Board of Governors of the American Construction Council herewith authorizes the expenditure of such sum as may be available up to \$25,000.00, to be used in the promotion of this work; and the Board requests the officers of the Council to utilize its administrative resources in every way possible in the furtherance of this program.

### 2. Apprenticeship

With the desire of furthering a sound and adequate program of apprentice training for the construction industry and of co-operating in every way possible with the present bodies who are directing their efforts in this field, and who are or in the future may be, inaugurating and conducting agencies for such training, the Board of Governors of the American Construction Council hereby requests the officers of the Council operating especially through its Committee on Apprenticeship, Vocational Guidance, and Craftsmanship, to co-operate with employees' and employers' organizations, building congresses, and all other elements in the construction industry, and with the educational bodies, local and national, in providing for apprenticeship which will be attractive to young men and will afford the fullest means for the employment and training of efficient workers as apprentices, and will produce the skilled workmen needed in the construction industry; and the Board further authorizes as the first essential step in this program the making of a national survey on apprenticeship needs and conditions of labor supply throughout the construction industry through the appropriate agencies of the Council co-operating with all organizations within the industry.

### 3. Statistical Program

Earlier in the year the American Construction Council called attention to the necessity for securing at regular intervals adequate data that would give the public information which it could use as a barometer of present and anticipated

volume of construction by important districts throughout the country. By securing such facts it is the thought that the peaks and valleys in construction activities, which have effects of such a serious nature upon every person in any way connected with the industry, either in contemplating and executing a project or as an owner, would by careful planning be reduced in so far as possible. The need for such information has become all the more apparent with the rapid expansion of the industry in its many angles and the desirability of co-ordinating its activities toward a better stabilization of the industry itself. The administrative machinery and the budget required to put into effect a program to accomplish these ends from the very nature of things would be very substantial in size.

After an extended and exhaustive survey of the field and of existing agencies for securing statistics on the construction industry, the Board of Governors of the American Construction Council has decided to defer action by the Council itself on a general program in this regard until such time as may be practicable, without duplication of effort, in expediting the collection interpretation, and dissemination nationally of data applicable locally and at present not readily available to the general public.

The Board of Governors further authorizes and directs its Executive Committee to keep in touch with condition pertaining to construction throughout the various districts of the nation, and if in its judgment a crisis arises in construction activities, to convene as many members of the Board as possible and issue a statement to the public for its information regarding same, recognizing in its action conditions applicable to the different localities.

### Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for October 1, 1923.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., Perry Building, Philadelphia.

Owners, Louis S. DeLone, Perry Building, Philadelphia; Samuel R. McDowell, Narberth, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,

Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 23rd day of September, 1923.

Hugh Roberts, Notary Public.

(My commission expires April 15, 1925.)

A great deal of the investment in any soft coal mine is the outlay for houses and other buildings needed for the community. A questionnaire addressed to a number of companies, scattered through Pennsylvania, Kentucky, West Virginia and Ohio, by the Minter Homes Corporation, of Huntington, W. Va., which builds whole industrial communities revealed that the average investment in houses for miners is slightly more than 29 percent., running from as low as 8 percent. in only two cases to as high as 50 percent.

The operators, to whom the questionnaire were sent, were asked also to designate what they considered the ideal amount of capital that should be put into houses for the miners. The lowest figure given was 12 per cent., with many operators naming 50 per cent. of the total investment. The average was slightly more than 35 percent.

This is not profitable investment from a money point of view, but has its return in reducing the turnover of labor and keeping the miners and their families contented and happy. The rentals charged to the workmen are so low, when the companies own the houses, that in some cases the return is not enough to balance depreciation, insurance and tax charges. Where any return was received at all, the highest amount was 3½ per cent., and the average for a number of companies showing some return on this outlay of money only 1.14 per cent.

Houses alone are not the only buildings in which money must be invested in operating a soft coal mine. Schools, churches, moving picture theatres, community buildings and the like often have to be erected by the coal operators, or they will not exist at all. The questionnaire developed that as high as 18 per cent. of the total capital outlay of one coal company went into such buildings, while the average for a number of widely scattered companies was more than 8 per cent.

The operators were nearly unanimous in answering that homes of the bungalow type were the ideal for mining communities, only a negligible number reporting that two story houses had proved more suitable. Four-room bungalows were particularly favored.

Better houses means bigger tonnages of coal mined by each man, according to the answers of three quarters of the operators questioned. The coal mined in a month for each four room house in mining communities were secured also, running from as low as 80 tons to as high as 250 tons in several instances. The average amount mined was 165½ tons.

The impractical dreamers are not the architects, but the clients themselves, as a rule.



## CONTRACTORS' ASSOCIATIONS' ACTIVITIES IN THE REDUCTION OF ACCIDENTS\*

RALPH A. MACMULLAN, *Secretary, General Builders' Association of Detroit, Mich.*

To some of you I presume this talk will be largely repetition of previous messages to the National Safety Council from the General Builders' Association of Detroit. Our association was very enthusiastic and active in the formation of the construction section at St. Louis, and since then we have been diligent in our attendance at the subsequent conventions at Cleveland, Milwaukee, Boston, Detroit and now at Buffalo. We believe that since "eternal vigilance is the price of success," what might be regarded as repetition may properly be understood as confirmation of our conviction that safety methods for the construction industry are not only humanitarian, and economically correct, but practically obligatory after you become convinced, as we are, that organization along this line and the control of accidents is the surest and most indispensable step toward efficiency of production, and efficiency of production is necessary in the present situation of labor shortage.

The General Builders' Association of Detroit is composed of seventeen members who have become so completely sold on the subject of accident safety and prevention that they are imbued with the common interest of working together in complete co-operation. The Association has a safety committee composed of one man from each member firm, the secretary of the association, the insurance representative, and the chief inspector. This committee holds periodical meetings, both regular and special, for discussion of all matters that have to do with safety. The scope of its deliberation is broad enough to include amendments to the compensation law, important decisions on the subject of public liability, owners' and contractors' contingent liability, the subject of equipment, materials and methods of handling them, and the like. It was this committee that actively prepared, approved and adopted the safety code of the General Builders' Association of Detroit, which has been used as a creed by our members and with which many of you are familiar because it has been republished and distributed rather generally throughout the United States and Canada.

To promote familiarity with our safety code and its intelligent application to safety problems on the jobs, our association appropriates, each year, a sum of

money to be expended in bi-monthly installments as prizes for the best answers to questionnaires embracing ten questions that are distributed among superintendents, foremen and others on the jobs. These prizes range from \$15 down to \$1, with additional prizes given for helpful suggestions whether they apply to the code or not.

### *Keep Abreast of Latest Methods*

The result of this questionnaire has been exceedingly gratifying and indicates that men on the job are very much interested in helping their own situation, to say nothing of the helpful propaganda of convincing the employees that their employers are actively interested in them, as evidenced by the attempt to save life and limb and preserve the men to their jobs. We cannot afford to overlook any possibility of betterment of our safety work by suggestions from the men actually on the job, and, further, the very thought given by the men to suggestions gives them what might be termed a "safety consciousness" whether their particular suggestion is of value or not.

The program of our safety committee is one of constant change to keep abreast of the best and latest practices and methods and particularly designed so that the subject shall not become commonplace or stale, and naturally is too extensive to permit of detailed reference here. One of the first and best details of that program, however, is the practice at times of holding periodical first aid classes showing practical methods of caring for accident cases and the education of one of the foremen or superintendent on each job in first aid work as well as that feature, perhaps more important, of impressing the participants with the conviction that an accident is a mighty good thing to prevent before it happens, and, how to minimize the result of it when it does occur.

A valuable adjunct to the work of the safety committee is our welfare department wherein a trained nurse visits the home of each workman whose injury requires hospital attendance. This nurse prepares a form provided for the purpose in which is noted information relative to the size of the family and general information about home conditions. If need of special financial or other help is indicated by the information gathered, we proceed from that point according to the merits of the case. Thus, a woman is given the task of breaking the news of the accident to the family of the injured workman, as only a woman can do. Next, the nurse visits the hospital and informs the patient that she has been to his home and has rendered such comfort and aid as has been necessary, and gives the patient such assurance that he is relieved from worry about his family and home.

In case of an accident of more than

ordinary gravity on any job, whether it be attended by severe results or results only potentially severe, the association convenes a board of inquiry consisting of the secretary, insurance representative, the chief inspector and the safety committee man in the employ of the member firm on whose job the accident occurred. As soon as practicable after the accident, the board visits the job, whether it be in Detroit or elsewhere, and takes informal testimony from eye witnesses, the injured workman, if possible, the foreman and superintendent. I use the word "informal" because we invariably begin by stressing the fact that all present are there for the purpose of discovering how such conditions may be promoted as will effectually prevent a repetition of such an accident and therefore they may all speak freely. The effect of this practice is very excellent in many ways, particularly in re-establishing confidence and, therefore, efficiency on that job.

### *Co-operate With Council and U. S. Department of Labor*

All of the foregoing will indicate to you that the systematic methods that we have developed and adopted for the control of accidents have resulted in a sort of unwritten book of standard rules and processes among the association members, and the various jobs of each member. Standard methods, plus discipline, its first cousin, must surely result in efficiency, and it follows just as naturally that efficiency based on organization and system makes for minimum accident occurrence. This, in a word, is success which in safety work means humanitarianism, economic as well as physical safety to workmen with a resulting speed and economy to both the owner and the contractor.

Without statistics of a high order, our work in safety methods could not be capable of being measured. To this end, we have worked carefully with the United States Department of Labor, the National Safety Council and others to perfect and adopt standard methods of accident accounting, and the adoption of forms with standardized nomenclature of cause and result of accidents with standardized penalties in elapsed days for fatal and permanently disabling accidents. I believe a great deal of credit for these standardized methods of accounting is due to the National Safety Council because it is now possible to make results in one section comparable with those elsewhere, and is an inestimable help to those who are making a sincere and intelligent effort to reduce industrial accidents and their results in the construction industry.

I wish to repeat what I said in the beginning; that our members have been so completely sold on the subject of accident prevention among employees through the

\*Address delivered at the National Safety Council Congress, Buffalo, N. Y.



methods outlined in the foregoing that they regard it as an essential department of their business along with economy and efficient handling of any other department. Safety is not the privilege of the large contractor, for he has no patent or special advantage over the small contractor. Nor do we agree that the phrase I dimly remember, "a death a floor" should be stoically accepted, for while we occasionally have deaths, we have completed many multiple story buildings on which the death column in the accident record is blank. We have both large and small contractors, and I am convinced through my knowledge of accident occurrence in the construction industry that accident prevention is exactly as important, no more and no less, to the small as well as to the large contractor, and that the methods of controlling and minimizing accidents are as much available to the one as to the other.

We have had a small measure of success in preventing accidents. But it is a matter of common discussion in our committee that our work has only nicely begun and that "every day in every way" we expect to become better and better.

#### FACTS ABOUT CONTRACTORS' PROFITS

*Day Labor System Suggests Efforts of Man to Save Money by Cutting His Own Hair*

BY E. EARL GLASS

*Secretary, So. California Chapter, A. G. C.*

Not long ago we noted an interesting development in the constant effort for efficiency. Some outstanding genius had added a guard to an ordinary razor blade so it would cut hair, and the attractive advertising showed a young man before a mirror, smilingly serving himself a regular "head-barber trim." The sales talk made the new hair-cutting seem quite simple and satisfactory. We were not quite inveigled into trying it, but have seen work that might have been done that way.

Now, there is no question but this was a discovery of vital interest to every man and many women. Untold millions are probably spent for hair-cuts each year, for the barber is found everywhere you go, plying his nefarious business for profit. Here was a fair and logical proposition to save the barber's profit and do it yourself. Yet the almost convincing ads have disappeared from the Saturday Evening Post and the barber shops are still with us, perhaps because the public has a deep-seated conviction that the barber knows his business better than the amateur who would learn hair-cutting at the expense of each job he undertakes. Also, the proposal was that we cut our OWN hair so we would individually suffer should our heroic effort for

economy at any cost prove a mistake.

There are many other enterprises operated solely for profit yet it seems for some reason that we hear more about the contractor's profit than any other. The writer is an engineer and therefore in a better position perhaps, than a contractor to make a few statements of fact regarding this important subject.

We know there has always been a persistent propaganda for the day labor method of construction. We have heard it and read it for many years. The almost convincing arguments offered by some engineers and public officials for doing construction work "to save the contractor's profit" may sound plausible to the average citizen but do not deceive those familiar with the economics of construction projects.

We engineers have seen the unfortunate efforts of numbers of our fellows to branch out as contractors and have come to the conclusion that a man having the peculiar qualifications to succeed as a professional engineer is thereby disqualified by temperament and training to carry on actual construction within the costs necessary to underbid all competitors and yet retain any of that much-maligned profit.

The principal reason for the continued claims for saving when the skilled constructor has been eliminated from construction by the day labor method is that the fallacy of the theory is not willingly divulged by those who have tested it, and it is a very simple matter to juggle cost records so that their position is not questioned. High salvage estimates for equipment, judicious distribution of salaries and other proper charges together with convenient changes of plans and methods can easily brighten the unit cost figures, but the best measure of the method is the customary exhaustion of funds before completion of the work.

#### *Regardless of Cost*

As we all know, the contractor is bonded to assure proper completion of the job, strictly according to plans and specifications, regardless of the cost to him or the sufficiency of his estimates.

The public official or engineer takes no such risks upon himself, using public funds and seldom rendering a detailed accounting. The contrast between the two methods is all too evident and the recent enactment of the Breed day labor law in California proves the taxpayer is demanding some protection against irresponsible expenditure of public construction funds.

Responsibility in this sense is generally understood as the ability to furnish a negotiable bond securing the proper completion of the work for a definite figure, something entirely neglected in the day labor method to the serious prejudice of the owner's or taxpayer's interest. Only

when such surety is furnished by the proponents of force account work can the two propositions be considered in any way comparable.

#### *Stories of Fabulous Riches*

And now, getting down to "brass tacks," the amount of the contractors' profit is something which the public should know more about. Some persons have seen fit to represent it as something fabulously rich. Only a bit of common sense is necessary to see that the conditions of the contracting business make this practically impossible.

Despite the monumental service rendered humanity by the skilled constructor in fabricating the works planned by the architect and engineer, which should win for him the honest appreciation of all people, he is subjected to the most keenly competitive of all business relations so that his profit, so-called, or better, his compensation for expert service, is often trimmed down to an absolute minimum in the effort to obtain the award against all his competitors.

Is it then any wonder that only the most able contractors survive the hazards of this business or that, on any project, the best results are obtained at the least practical cost when the general contractor receives his legitimate profit?

—The Constructor.

Soft coal miners have a distinct advantage over similar laborers in the building industry. Careful study of the average daily earnings of miners in the Hocking Valley District of Ohio compared with the government figures for the average daily earnings of the same class of labor in the building industry, shows that last year the miner averaged \$8.83 a day while the same class of building labor received only \$4.36.

The Hocking Valley District figures are taken for soft coal miners, as the wage rate there is the basis for all other wage scales in organized districts where soft coal is mined.

What economists call "real earnings"—the purchasing power of the money earned in any particular industry and place—is really more important than the actual money earnings. Getting paid \$100 a day wouldn't be much if bread cost \$150 a loaf, or if it required \$50 to have your shoes shined. In this matter of "real earnings" the purchasing power of the bituminous coal miner has risen 74 per cent. since 1914, while the purchasing power of labor in the building business decreased 25 per cent. since 1914.

So attractive is the pay of the miners that the industry has drawn to it many thousands of men who are not needed to mine the coal. The excess of such miners is variously estimated at from 150,000 to 200,000.



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Daily Building News. ....Perry Bldg., Phila.

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Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

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## CONCRETE WORK.

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Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

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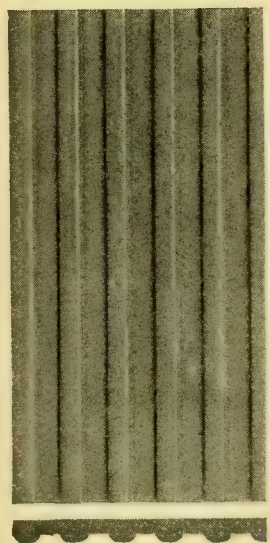
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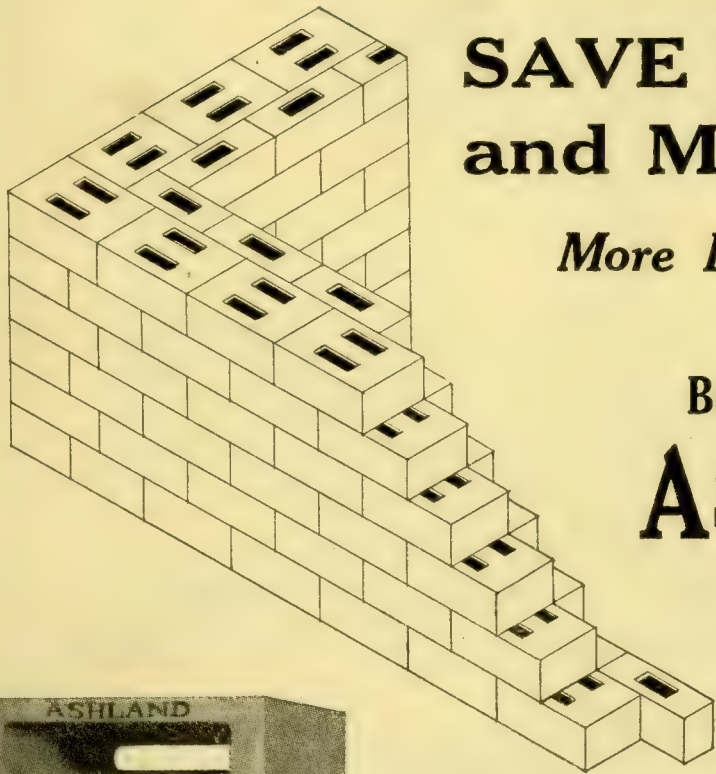
# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 42  
October 17, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

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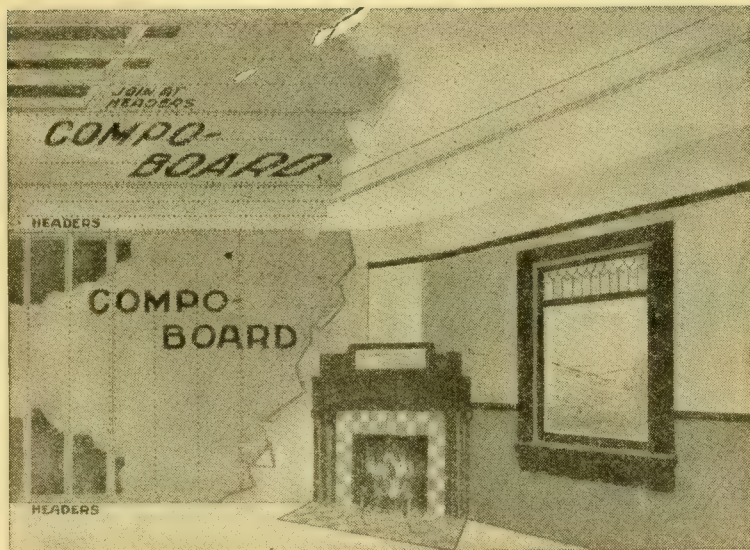
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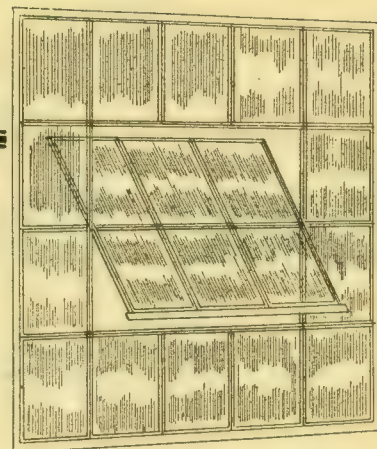
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## Sales of Navy Surplus by Public Auction as follows

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With a view towards disposing of all Navy Surplus available in and around Boston, Mass., three sales by public auction have been planned as follows :

**SALE OF BUILDINGS IN THEIR ENTIRETY, OF STEEL AND IRON CONSTRUCTION, LOCATED AT THE DESTROYER AND SUBMARINE BASE AT SQUANTUM, (NEAR BOSTON), MASSACHUSETTS, HAS BEEN PLANNED AT PUBLIC AUCTION ON OCTOBER 29, 1923. CATALOGUE 528-A COVERS ALL DETAILS AS TO SIZE, DESCRIPTION, ETC.**

In addition to the sale of buildings above referred to, additional sales will be held as follows :

**SALE OF OCTOBER 25, 1923, CATALOGUE 536-A.**  
At the Destroyer and Submarine Base, Squantum (near Boston), Massachusetts. In this sale there will be included the remaining items of surplus such as boat chain, rivets, chain studs, scrap, etc.

**SALE OF OCTOBER 26, 1923, CATALOGUE 527-A.** At the Navy Yard, Boston, Massachusetts, covering surplus materials of a general character in large quantities, and condemned materials.

Sales will be held on the dates specified at 10 A. M. (Eastern Standard Time), unless otherwise stated in the Catalogue. Catalogues of sale containing all details as to description and terms of sale may be obtained upon application to the auctioneers ; namely, J. E. Conant & Company, Lowell, Massachusetts, or the undersigned.

**CENTRAL SALES OFFICE, Navy Yard, Washington, D. C.**

## 1924 Directory of the Architectural and Building Trades of Philadelphia

Now being compiled, will be issued January, 1924. To be sure you are correctly listed under the classifications desired, send in listings promptly.

Advertisements under all classifications precede listings. To get preferred positions, call

**BUILDING NEWS PUBLISHING CO.**

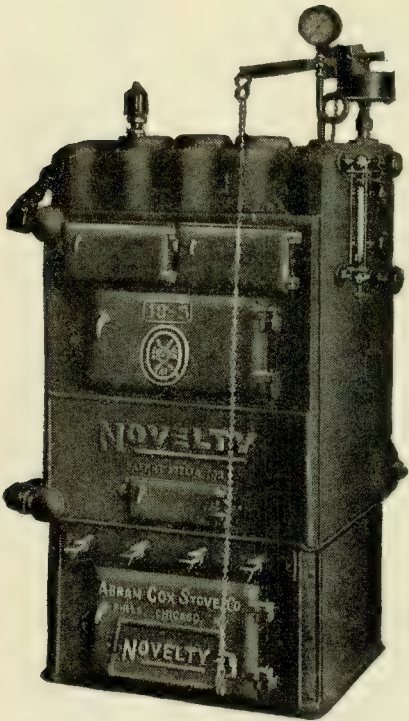
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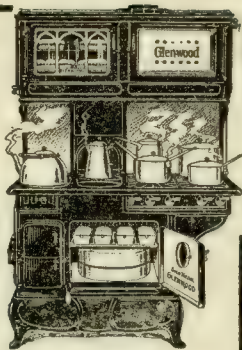


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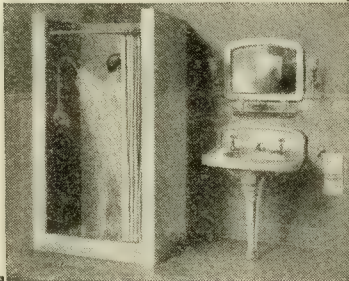
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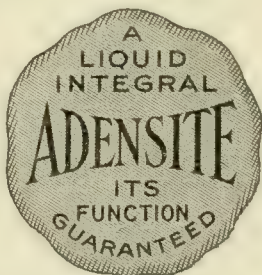
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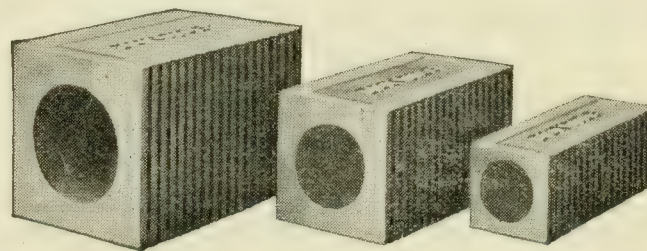
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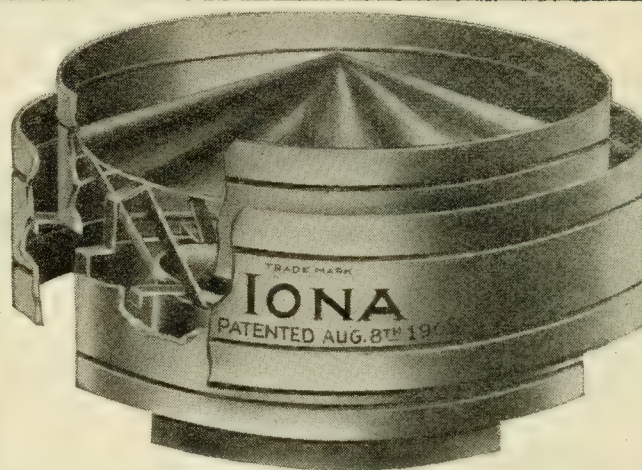
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 42

PHILADELPHIA  
October 17, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### THE ECONOMY OF WINTER CONSTRUCTION OF BUILDINGS

(Editorial from *Engineering and Contracting*, Chicago, Sept. 26, 1923.)

We are all familiar with the statement of psychologists that men are the creatures of habit, but few of us undertake to apply that generalization to our own selves with a view to correcting habits that are uneconomic. For example, before present methods of construction existed, our forebears formed the habit of doing practically all their construction work during "good weather," that is in the late spring, summer and early autumn. This habit was, at one time economic, for during the "bad weather" seasons the roads were practically impassable, and building materials could not be delivered. Moreover, in those days lime mortar was the only cementing material used for brick and stone masonry, and lime mortar can not be safely used in freezing weather for its hardening depends upon the chemical absorption of carbonic acid gas from the air, a process that does not occur when the lime is frozen. With the introduction of portland cement, however, it became possible safely to build stone and brick masonry as well as concrete in freezing weather, but the age-long habit of regarding winter-built masonry as being unsafe had too strong a

grip to be easily overcome, and even yet causes many men to defer construction till "good weather" comes.

Architects, engineers and contractors usually know that most classes of building construction can be economically performed in the winter, but most "owners" of buildings are habituated to regard winter as an unfit construction time, and consequently defer ordering building construction until spring is at hand. But even members of the building profession have not entirely freed themselves from the ancient habit of looking upon winter as a poor time in which to build. They know that the average workman will not do as big a day's work in very cold weather as in warm weather, other things being equal, but they overlook the fact that other things are not equal. The very fact that winter jobs are not so plentiful as summer jobs makes for labor efficiency, since men will work harder when there is risk of being discharged and of not being able to secure another job quickly.

The prices of building materials are usually lower in winter than in summer, because of the slackened demand, and this reduction alone frequently amounts to a considerable percentage of the total cost of a building. Usually more than half the total cost of a building is the cost of materials. Hence a 10 per cent. saving on the cost of materials is equiv-

alent to more than 5 per cent. saving on the cost of the entire building.

One of the elements of building cost that is rarely seen in published statements of cost is the cost of delays in the delivery of materials. During the "good weather" seasons both the manufacturing plants and transportation plants are apt to be overloaded. Hence even if the factory or mill is ready to fill your order the railway or the motor trucks are unable to deliver the material. In the slack season the cost of such delays is eliminated.

If a building is being erected for rental purposes, it is highly important that it be finished either in the early fall or by the first of May. If construction work is planned for the "good weather" season, delays in getting work started, delays in securing materials, and inability to secure an adequate force of workmen at all times, very frequently prevent the completion of the building until after the fall renting date, Sept. 1 or Oct. 1, in consequence of which the owner suffers a severe loss of income. But even where the owner expects to occupy his own building, failure to complete it at the expiration of his lease is sure to cause him both expense and inconvenience. The cost of failure to complete a building at the time when occupancy of it is planned, is an item that seldom appears in estimates of cost but frequently does appear in large figures in any complete summary

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PRINTS**



of cost.

In recent years much has been written about the economic desirability of lengthening the construction season. It has been pointed out that if workmen and construction plant are idle one-third of the time (and it averages longer) then the labor cost of construction becomes 50 per cent more than it would be were it possible to keep them continuously employed. The income of both labor and capital, in the final analysis, must be reckoned by the year and if only 200 of the 300 available working days in a year are actually worked, the cost per diem, both for wages and for fixed charges on the construction plant, is greater by one-half than it would be were the full 300 days made productive.

This economic argument in favor of continuous building construction is unanswerable, provided a day's construction cost in the winter does not greatly exceed a day's construction cost in summer. We are sure that, with fairly good roads, with modern machinery and devices, with building materials that can be safely used in freezing weather, winter building can be almost, if not fully, as economically conducted as summer building and that when consideration is given to all the elements of cost (such as labor efficiency, adequate labor supply, promptitude in delivery of materials, interest charges on the land and building up to the time of occupancy) then winter building construction becomes so clearly economic that even the most deep set habit of aversion to it can not survive.

It seems to us that every architect, every structural engineer, every building contractor, should submit estimates of building cost to his clients, demonstrating the real economy of all-the-year-round construction; for, after all it is the "owner" who is responsible for most of the postponement of building "until the frost is out of the ground." The age-long habit of such postponement still grips the average layman.

A Fall Outing of the members of the Philadelphia Builders' Exchange and Employers' Association will be held on the afternoon and evening, of Tuesday, October 23, at the Lu Lu Temple Country Club, Edge Hill, Pa.

*The Program:* Meet at the Club at one o'clock for a round of golf and for games of quoits, tennis, baseball, football, cards, and shuffle-board—anything you care to play inside or out. Golfers should mail their club handicaps to the Secretary at once. (Prize for low member's score.)

At six o'clock members will banquet at a real Beef Steak Dinner with all the delicacies for trimmings, and an elevating show for entertainment,

## PREPARED ROOFING SIMPLIFIED

At a meetnig held recently at the Department of Commerce with representatives of the Division of Simplified Practice and the Chamber of Commerce of the United States, manufacturers, distributors and consumers of prepared roofing agreed to the following simplifications as being of benefit not only to the industry but also to the public at large:

1. To eliminate all grades or kinds of slate-surfaced and also stone-surfaced prepared roofing that do not measure up to the requirements of the "Class C Label" of the Underwriters' Laboratories.

2. To reduce the varieties of smooth surface roofing to seven lines or grades—weights and qualities being considered.

This Simplified Practice Recommendation is to become effective January 1, 1924, and is to hold for one year.

According to Wm. A. Durgin, Chief of the Commerce Department's Division of Simplified Practice this is another step in the general program fostered by Secretary Hoover for the elimination of waste in industry. "The proposed eliminations," he said "were strongly supported by the American Institute of Architects, the National Retail Hardware Association representing 21,000 retail hardware dealers throughout the United States, the National Retail Lumber Dealers' Association, the Southeastern Builders' Supply Association, and the Prepared Roofing Association."

Prepared roofing is a product used all over the world, not only as a roofing material, but in cane fields and elsewhere for keeping weeds down and retaining moisture and warmth.

It is believed this program will bring many economies to the manufacturers, such as decreased idle stocks, less idle investment, and ultimately lower production costs, and benefit the distributors by stimulating turnover and increasing sales. Consumers will also benefit in due time through better quality, better prices, and quicker service. Several other simplifications of building materials have been completed, notably common and face clay brick. Others in process of completion are lumber, hollow building tile, cement brick, block and tile, clay drain tile, etc. All of these simplifications are contributing to the general effort to reduce the needless wastes in the building field, and thus forward the achievement of the ideal now so prominently before the public: "Better Homes at Lower Cost."

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

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# Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Church, Sunday School Building and Parsonage**, Oxford avenue, Dyer and Akron streets, Frankford, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Frankford Avenue Methodist Episcopal Church, on premises. Stone, cut stone, cast stone, concrete, 1 and 3 stories, steam heat, electric light, metal lath, tile work, rolled steel sash, iron work, metal ceilings, waterproofing, hollow tile, maple, pine and composition floors, slate roof. Revised plans in progress.

**Residence and Garage**, Eleventh and Cheltenham avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Morris Gross, 1233 Market street, Philadelphia. Stone and brick, 3 stories, hot water heating, electric light, tile and marble work, slate roof, oak and cement floors, quarry tile. Plans in progress.

**Store and Apartment (alts. and add.)**, 1511 Foulkrod street, Philadelphia. Architect, E. Schoppe, 315 South Fifteenth street, Philadelphia. Owner, G. Thiele, care of architect. Brick, 2 stories, 15x15 feet, 30x15 feet, hot water heat, electric light, tile and marble work, copper bars, plate glass, slag roof, hardwood and composition floors. Revised plans in progress. Architect will be ready for bids in a few days.

**Alterations and Additions**, 3162-64 Kensington avenue, Philadelphia. Architect, Edward Schoppe, 316 South Fifteenth street, Philadelphia. Owner, William Horner, on premises. Brick, cut stone, 2 stories, 35x93 feet (plumbing, heating, electric reserved), slag roof, maple, composition, cement and oak floors, metal lath, tile, marble and terrazzo work, galvanized iron skylights, metal ceilings, terra cotta. Revised plans in progress. Architect ready for bids in a few days.

**Garage**, 1333 Frankford avenue, Philadelphia. Architect, Edward Schoppe, 316 South Fifteenth street, Philadelphia. Owner, W. P. Veas, care of architect. Brick, steel, cut stone, 1 story, 100x40 feet, slag roof, cement floors, plumbing, roof ventilators, galvanized iron skylights, terra cotta, coping iron work. Revised plans in progress. Architect ready for bids in a few days.

**Store (alts.)**, 631 Market street, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut

street, Philadelphia. Owner, name withheld. Carpentry and mill work, hardware, plastering, metal ceilings, painting and glazing, tile and marble work, electric work, plumbing, heating alterations. Revised plans in progress.

**Residence (alt. into Apartments)**, 332 Manheim street, Germantown. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, Anthony Flannery, on premises. General alterations (interior), changing partitions, stair work, mill work, painting and glazing, plumbing, electric light. Plans in progress.

**Club House**, 1812-14 Ludlow street, Philadelphia. Architects, Gleason, Mulrooney & Burke, 404 South Broad street, Philadelphia. Owners, The Cahill Club, 1842 North Broad street, Philadelphia. Brick, 2 stories and basement, 33x40 feet. Plans in progress.

**Building**, Northeast Corner Thirtieth and Walnut streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Joseph J. Greenberg, Morris Building, Philadelphia. Reinforced concrete, steel, 6 stories, 34,000 square feet. Plans in progress. Architect will take bids in two weeks.

**Residence**, 6710 Ridge avenue, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owner, Joseph D'Uva, Wissahickon, Philadelphia. Stone, 2½ stories, 40½x36 feet, slate roof, hardwood floors, electric light, hot water heat, tile and marble work. Plans completed. Owner ready for sub-bids.

**Residence**, North side Meadowbrook Lane, East of Stroud street, \$16,000. Architect, Samuel W. Marshall, 1524 Chestnut street, Philadelphia. Owner, Frederic S. Whittaker, 7706 Mermaid Lane, Philadelphia. Stone, 3 stories, 40x29 feet, and 2 stories, 12x20 feet, hardwood and pine floors, steam or hot water heat, electric light, tile work. Owner will build.

**Residence (alts.)**, 1807 Erie avenue, Philadelphia. Architect, C. L. Caspary, 225 South Seventeenth street, Philadelphia. Owner, L. Prinz, care of architect. Carpentry and mill work, hardwood floors, electric light, tile work. Architect taking sub-bids due as soon as possible.

**Theatre (moving picture)**, Rising Sun avenue and Loudon street, Philadelphia, \$10,000. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Felton Theatre, care of Samuel Shapiro, on premises. Brick, steel, carpentry and mill work, plumbing, steam heating, painting and glazing, tile and marble work, morene cement. Owners will build and are taking sub-bids.

**Residences (2)**, South side Fidler street, East of Frankford avenue, \$6,500 each. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Frame, 3 stories, 27x24 feet, and 2 stories, 19x12 feet, hot water heat, electric light, tile work, hardwood and pine floors. Architect taking sub-bids.

**Residences (5)**, Seventy-third and Market streets, Philadelphia. Architects, Deysher & Stetler, 1015 Chestnut street, Philadelphia. Owners, Home Builders, Inc., 1482 North Sixty-second street, Philadelphia. Stone and stucco, 2½ stories, 25x30 feet, hardwood floors, hot water heat, electric light, tile work, shingle roof. Architect taking sub-bids due as soon as possible.

**Residences (16)**, Vodges street, between Saybrook and Paschall avenues, Philadelphia. Architects, Deysher & Stetler, 1015 Chestnut street, Philadelphia. Owners, Mensch & Manley, 5439 Woodland avenue, Philadelphia. Brick, 2 stories, 15x40 feet, slag and tin roof, hardwood and pine floors, electric light. Owners taking sub-bids.

**Garages (add.)**, 7151 Germantown avenue, Philadelphia. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mrs. Robert J. Barr, on premises. Brick, 2 stories, 24x23 feet, slag roof, cement floors, iron work. Owner will build.

**Residence and Garage**, Boulevard and Helmler street, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Cheston W. Haigh, 4512 North Tenth street, Philadelphia. Stone, 2½ stories, 30x35 feet, and wing, garage, 1 story, 20x32 feet, hot water heat, electric light, tile work, hardwood floors Spanish tile roof, cement work. Plans in progress. Owner will take sub-bids in two weeks.

**Telephone Building**, 8318 Germantown avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 story add., 86x33 feet, slag roof, composition and cement floors, electric light, steam heat, metal lath, tile and marble work, bond. Architect taking bids due October 22nd.

**Alterations and Additions**, Southwest Corner Juniper and Chestnut street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, M. Spector, care of architect. Brick, reinforced concrete, cut stone, tile roof, composition and cement floors, plastering, tile and marble work, metal lath, bond, metal bulks, iron work, terra cotta

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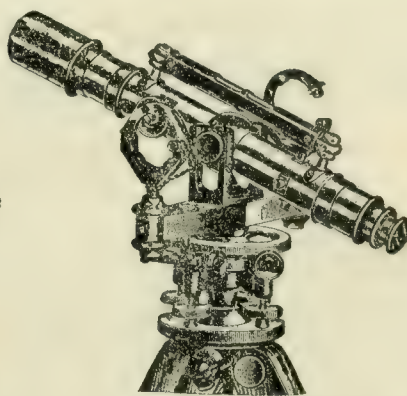
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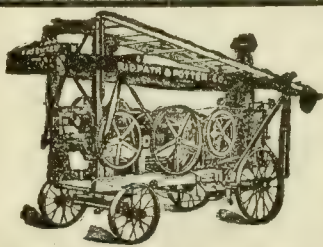
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(plumbing, heating, electric and cabinet work reserved). Architect taking bids due October 19th, 3 P. M.

**Residence and Garage**, Midvale avenue, between Stokley and Fox street, Philadelphia. Architect, Lawrence V. Boyd, Harrison Building, Philadelphia. Owner, Raymond M. Remick, Land Title Building, Philadelphia. Stone, 2½ stories and 1½ stories, 52x26 feet, garage, 20x20 feet, slate roof, oak and pine floors, electric light, hot water heat. Architect taking bids due October 19th.

**Garage**, Seventeenth above Glenwood avenue, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Haney White Co., on premises. Concrete and steel, 1 story, 20x60 feet, concrete roof, cement floors. Plans in progress.

**Lighting Fixtures**, Post Office Building, Ninth and Chestnut street, Philadelphia. Owners, Treasury Department, Washington, D. C. Lighting fixtures. Apply to Custodian of building, on site. Bids due October 23rd.

**Sales and Service Building**, 4732 Frankford avenue, Philadelphia. Architect, H. Child Hodgins, 130 South Fifteenth street, Philadelphia. Owner, William Freihofers, care of architect. Architect taking bids due October 19th.

**Alterations to First Floor**, Pennsylvania Building, Fifteenth and Chestnut streets. Architect, Ralph White, Pennsylvania Building, Philadelphia. Owners, Pennsylvania Building, Philadelphia. Cement paving, carpentry work, mill work, plastering, structural steel, iron work, painting and glazing, hardware, terrazzo floors. Architect taking bids due October 22nd, 2 P. M.

**Residences (15)**, Cornwall, B and Rosehill streets, \$62,400. Architect, private plans. Owner, James A. Brady, 1610 Spencer street, Philadelphia. Brick, 2 stories, 16x50 feet, 16x40 feet and 16x53 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (54)**, 2901-51 South Sixteenth street and 2902-52 South Sydenham street, Philadelphia, \$206,800. Owner, Frederick S. Park, Seventeenth and Moyamensing avenue, Philadelphia. Brick, 2 stories, 16x38 feet, 14x38 feet and 15x39 feet, slag roof, hot water heat, electric light, tile work. Owner will build.

**Residence and Store**, Southwest Corner Thirty-seventh and Irving streets, \$10,000. Architect, private plans. Owner, Louis Cohen, 3701 Chestnut street, Philadelphia. Brick, 3 stories, 17x33 feet, 14x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (17)**, West side Flanders Road, Lebanon avenue to Oxford street, \$5,500 each. Architect, private plans. Owner, John H.

McClatchey, Land Title Building, Philadelphia. Stone and brick, 2 stories, 16x33 feet, slag and tile roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (2)**, North side Hermitage street, East of Lawnton, \$4,500 each. Architect, private plans. Owner, E. L. Cuthbertson, 334 Roxboro avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (2)**, East side Oxford avenue, South of Cottman street, \$4,250 each. Architect, private plans. Owner, Daniel Potena, 3306 North Hancock street, Philadelphia. Brick and frame, 2 stories, 16x41 feet, slag roof, hardwood and pine floors, electric lighting. Owner will build.

**Residence**, West side Marsden street, South of Unruh street, \$4,000. Architect, private plans. Owner, Daniel J. Gereko, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x39 feet, hot air heat, electric light. Owner will build.

**Residence**, East side Edgemont street, South of Ontario, \$5,000. Architect, private plans. Owner, A. Jaskieliewicz, 3409 Edgemont street, Philadelphia. Brick, 2 stories, 16x55 feet, hot air heat, electric light. Owner will build.

**Residences (2)**, South side Shelmire street, West of Lawndale avenue, \$4,200 each. Architect, private plans. Owner, Walter Hak, 3016 North Ninth street, Philadelphia. Frame, 2 stories, 24x40 feet, hot water heat, electric light. Owner will build.

**Garage**, South side Shurs Lane, East of Manayunk avenue, \$5,000. Architect, private plans. Owner, Joseph Decker, 4241 Main street, Manayunk, Philadelphia. Stone, 1 story, 20x92 feet, tin roof, cement floor. Owner will build.

**Garage**, South side Loudon street, West of D street, Philadelphia, \$2,500. Architect, private plans. Owner, Charles J. Greimer, 4746 D street, Philadelphia. Brick, 1 story, 17x93 feet, slag roof, cement floors. Owner will build.

**Garage**, South side Haworth street, West of Torresdale avenue, \$2,500. Architect, private plans. Owner, Ludwig Schultz, on premises. Brick, 1 story, 75x17½ feet, slag roof, cement floors. Owner will build.

**Garages (2)**, (1) 3372-76 Salmon street and (1) Tilton street, South of Ontario street, \$4,300. Architect, private plans. Owner, Stanley Orga, 3370 Salmon street, Philadelphia. Brick, 1 story, 48x50 feet and 48x20 feet, slag roof, cement floors. Owner will build.

**Residence**, North side Suffolk avenue, West of Seventy-ninth street, \$4,000. Architect, private plans. Owner, Anthony Janmant, 8314 Brunswick avenue, Philadelphia. Brick, 2 sto-

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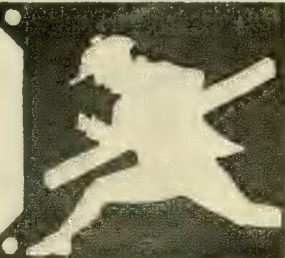
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ries, 16x38 feet, slag roof, pipeless heating, electric lighting. Owner will build.

**Residence**, East side Watson street, South of Hartel avenue, \$4,000. Architect, private plans. Owner, Wesley Johnson, 1315 North Twenty-seventh street, Philadelphia. Frame, 1 story, 21x30 feet, shingle roof, hot water heat, electric light. Owner will build.

**Garage**, Northeast Corner Sixty-fifth street and Baltimore and Ohio Railroad, Philadelphia, \$2,500. Architect, private plans. Owner, George H. Farrell, 6355 Greenway avenue, Philadelphia. Brick, 1 story, 140x16 feet, slag roof, cement floors. Owner will build.

**Store and Storage Building**, 5601 Boyer street, Philadelphia, \$3,000. Architect, Benjamin Brown, Denckla Building, Philadelphia. Owner, S. S. Silverman, 226 South Fourth street, Philadelphia. Brick, 1 story add., 18x90 feet. Owner will build.

**Garage**, West side Sixty-seventh street, North of Elmwood avenue, Philadelphia, \$2,800. Architect, private plans. Owners, France & Missar, 6725 Yocum street, Philadelphia. Brick, 1 story, 16x98 feet, slag roof, cement floors. Owners will build.

**Garage**, 6312 Rising Sun avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Richard Wildey, 6324 Rising Sun avenue, Philadelphia. Brick, 1 story, 100x16 feet, slag roof, cement floors. Owner will build.

**Residence**, North side Hatel street, West of Frontenac, \$2,500. Architect, private plans. Owner, George Zindell, Hartel street, West of Frontenac, Philadelphia. Frame, 1 story, 15x40 feet. Owner will build.

**Supplies**, Philadelphia. Owners, Purchasing Agent of Philadelphia, T. F. Armstrong, 312 City Hall, Philadelphia. Wire and electric supplies, pipe and fittings, sterilizers, copper sloath, hospital furniture. Owners taking bids due October 23rd at noon.

**Branch Sewers, etc.**, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. For further information inquire Room 416. Owners taking bids due October 23rd at noon.

**Shop and Garage (add.)**, Northwest Corner Front and Fernon streets, \$3,900. Architect, private plans. Owner, Peter Danhos, on premises. Brick, 1 story, 18x20 feet, slag roof, cement floor. Owner will build.

**Residence**, South side Rhawn street, West of Frontenac, \$3,000. Architect, private plans. Owner, Henry Weiser, 1639 Harrison street, Philadelphia. Frame, 1 story, 20x28 feet, electric work. Owner will build.

**Building (add.)**, Southwest Corner A and Somerset streets, \$2,500. Architects, Wilson, Ruff & Co., Franklin Trust Building, Philadelphia. Owners, John Bromly & Sons, Lehigh avenue and A street, Philadelphia. Brick, 1 story add., 18x31 feet. Architects will build.

**Residences (20)**, East side Heip street, North of Tioga street, Philadelphia, \$5,000 each. Architect, private plans. Owner, M. J.

Walsh, 4302 North Third street, Philadelphia. Brick, 2 stories, 16x32 feet, hardwood and pine floors, slag roof, hot water heat, electric light. Owner will build.

**Store Building**, Frankford avenue and Arrot street, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, Ralph M. Seaman, 4517 Frankford avenue, Philadelphia. Brick, 1 story, 16x130 feet, slag roof, hardwood and composition floors, steam heat, electric lighting, plate glass. Architect taking sub-bids.

**Church**, Howell and Torresdale avenue, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owners, Wissinoming P. Church, Rev. W. Cook, 5817 Torresdale avenue. Stone, steam heat, electric light, slate roof, maple floors. Architect taking sub-bids due as soon as possible.

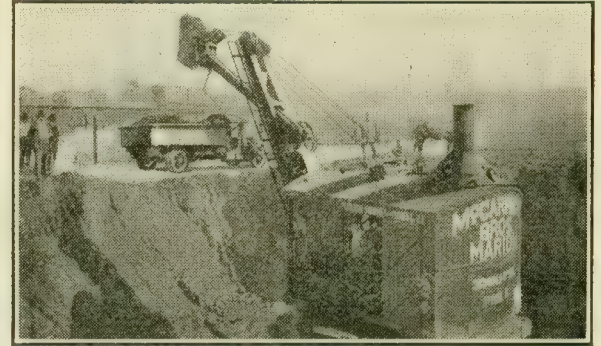
**Stable and Garage (alts. and add.)**, Northwest Corner Sixty-second and Locust streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Strawbridge & Clothier, Eighth and Market streets, Philadelphia. Bridge, cut stone, reinforced concrete, steel, 1 story, 18x83 feet, slag roof (heating and electric reserved), cement floors, hollow tile, sheet metal skylights, bond, floor hardener, iron work. Architects taking bids due October 18th.

**Garage**, Carlisle and Montgomery avenue, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Lionel Freidman, 251 South Fifteenth street, Philadelphia. Brick and steel, 1 story, 85x121 feet, 211x79 feet, asphalt, gypsum roof, cement floors, roof ventilators, ornamental iron work, bond, steam heat, electric light, rolled steel sash and skylights. Architect taking bids due October 18th.

### Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 3, 1923. Sealed Proposals will be opened in this office at 3 P. M., November 5, 1923, for the construction of a one-story brick and tile non-fireproof Post Office building, approximately 62 by 64 feet in size, at Hoosick Falls, N. Y. Drawings and specifications may be obtained from the Custodian of the site at Hoosick Falls, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Octo-



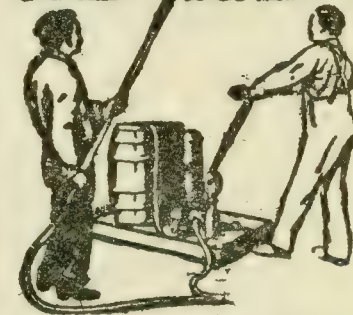
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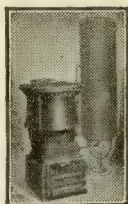
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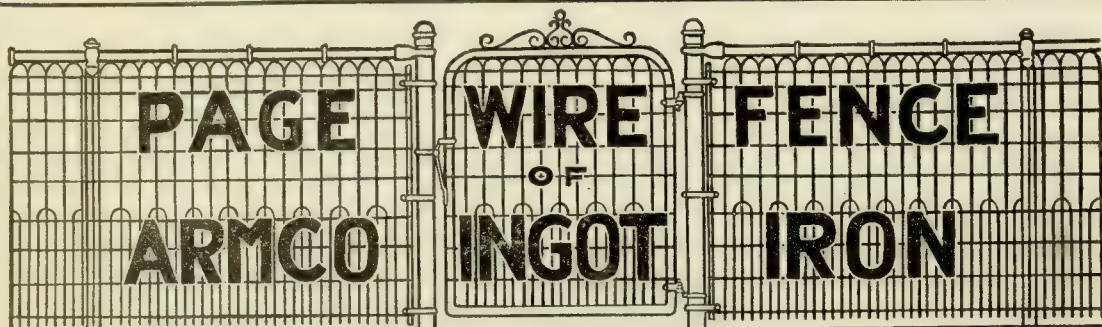
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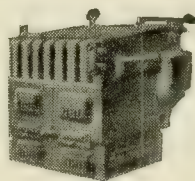
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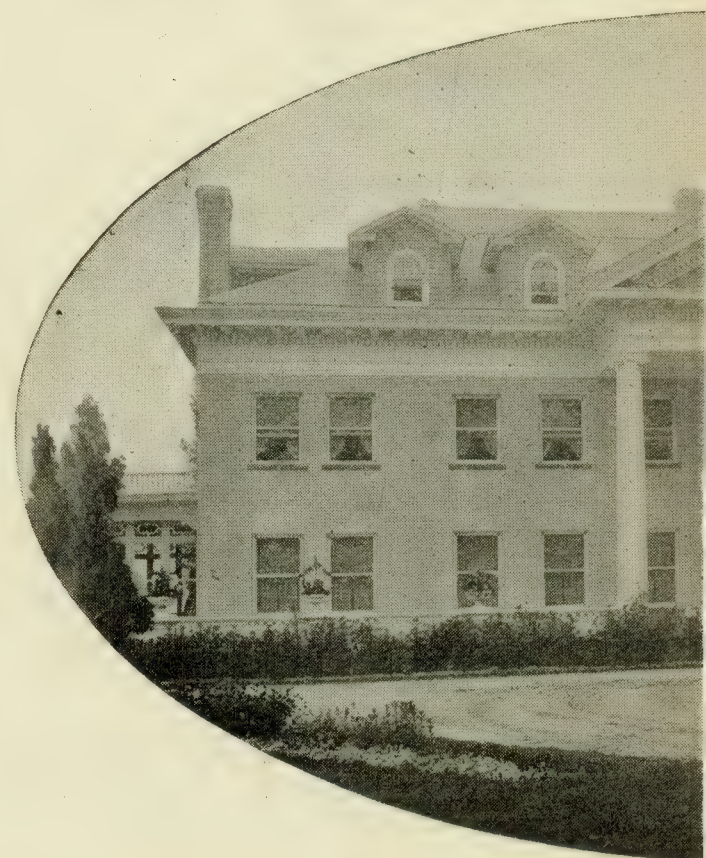
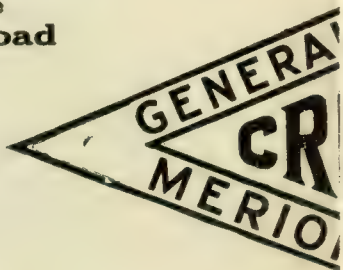
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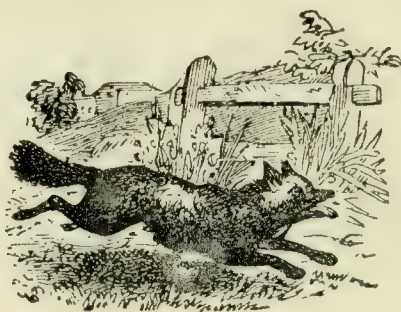
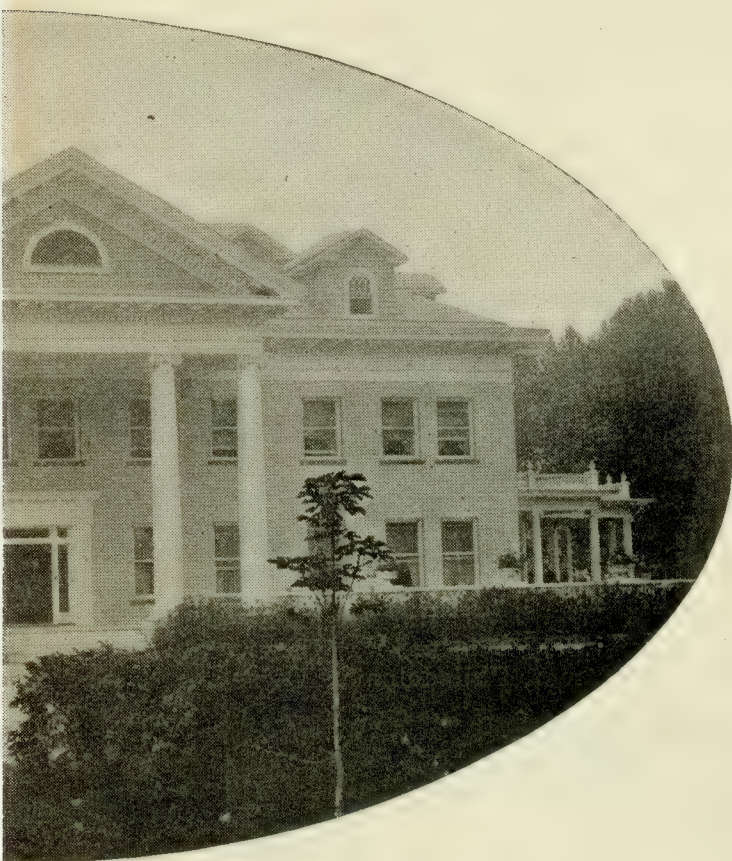
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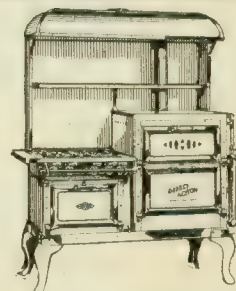
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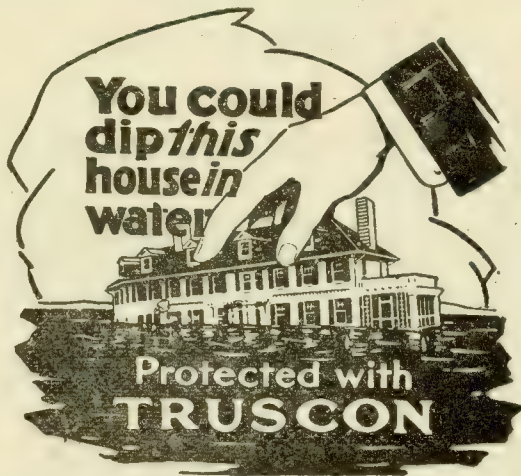
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in accordance with the specifications and drawings mentioned therein, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Modern Laundry, on premises. Brick, mill construction, 1 story, 32x160 feet, slag roof, maple floors, hollow metal saw-tooth skylights (heating and electric reserved), plumbing. **New Front to Old Building** on Market and Forty-first street side, cut stone, Indiana limestone, rolled steel sash. Contract awarded Fred A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Building** (alts. and add.), 262 South Seventeenth street, Philadelphia. Architect, L. B. Rothschild, 219 South Broad street, Philadelphia. Owners, Fried, Fishman & White, agents, 605 South Tenth street. Brick, cut stone and granite, 1 story, 11x15 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble work, iron work. Contract awarded for completion to Fine & Seidman, 810 North Marshall street (note change in contractor).

**Private Garage**, 1753 North Thirty-third street, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, Daniel Slutsky, 1753 North Thirty-third street, Philadelphia. Brick, 1 story, 12x13 feet, cement roof and floors, hot water heat, electric light. Contract awarded Umin & Son, 2647 South Sixth street, Philadelphia.

**Apartment**, 3943 Lancaster avenue, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, A.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

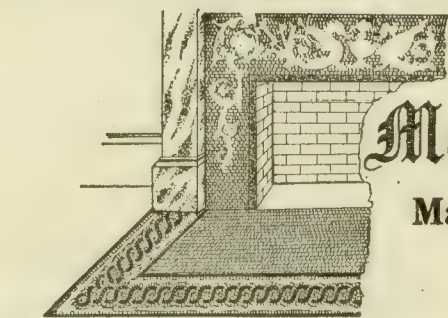
**Garage and Service Station**, 4542-46 Baltimore avenue, Philadelphia, \$50,000. Architect, F. C. Borrel, Jr., 5425 Summer street, Philadelphia. Owner, Charles Boyle, care of architect. Brick and steel, 2 stories, 135x50 feet, hot water heat, electric light, slag roof, cement and pine floors, metal lath, rolled steel sash and skylights, fire doors, metal lath, rolled steel sash, iron work, elevators, roof ventilators. Contract awarded Smith Hardican Co., 1809 Callowhill street, Philadelphia.

**Warehouse and Siding**, Main and Harvey streets, Philadelphia, \$65,000. Architect and engineer, Ralph J. Lawrence, 525 Gates street, Roxborough. Owners, John P. Holt, Inc., on premises. Reinforced concrete, brick and steel, 4 stories, 57x75 feet, asbestos, asphalt roof, concrete floors, elevators, water-

proofing, iron work and stairs, floor hardener, bond, rolled steel doors, copper skylights, electric light (heating reserved). Contract awarded Robert E. Lamb Co., 845 North Nineteenth street, Philadelphia.

**Building**, 115-117 North Nineteenth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Lessees, J. W. Holland Co., 115 North Nineteenth street, Philadelphia. Owner, William Newman, 117 North Nineteenth street, Philadelphia. Brick, 2 stories, 32x24 feet, slag roof, pine floors, roof ventilators, metal ceiling, dampproofing, ornamental iron work, bond, metal skylights, rolled steel sash, tile and marble work, electric. Contract awarded A. Kirpichnikoff, Fifth and Tasker streets, Philadelphia.

**Laundry Building** (alts. and add.), Market to Filbert street, East of Forty-first street.



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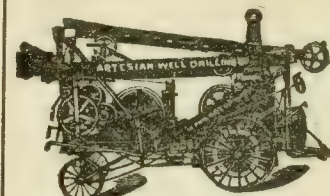
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Narymon, 3943 Lancaster avenue, Philadelphia. Brick, 3 stories, 26x40 feet, slag roof, pine floors, hot water heat, electric work, tile work. Contract awarded Zimmerman Const. Co., 149 South Fourth street, Philadelphia.

**Sales and Service Station**, Chelton, East of Wayne avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Koelle Greenwood Co., 6025 Germantown avenue, Philadelphia. Brick, cut stone, concrete and steel, 2 stories, 189x70 feet and 110x30 feet, slag roof, terrazzo and cement floors, hollow metal sash, galvanized iron skylights, bond, iron work, floor hardener. Contract awarded Turner Const. Co., 1713 Sansom street, Philadelphia.

**Alterations**, 2004 Pine street, Philadelphia, \$4,400. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owner, name withheld. Brick work, carpentry and mill work, iron work, hardware, metal bulks, heating alterations, bond (oak floors, painting and glazing, tile and marble work, plumbing, electric work, roofing and plastering reserved). Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

**Bakery (alts. and add.)**, 1933-35 Reed street, Philadelphia, \$30,000. Engineers, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Thommens, Inc., 1520 Market street, Philadelphia. General interior alterations and additions. Contract awarded F. C. Hood Co., 1013 Chestnut street, Philadelphia.

**Covered Platform**, Kensington Freight Yard, Philadelphia. Engineer (division), Mr. Fretwell, Thirty-second and Powelton avenue, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. One story, 14x140 feet, asphalt shingle roof, plank floors, electric light. Contract awarded Rob-

bins Cont. Co., 1137 North Front street, Philadelphia.

**Tool House**, Kensington and Pacific street, Philadelphia. Division engineer, Mr. Fretwell, Thirty-second and Powelton avenue, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Frame and stucco, 2 stories, 16x32 feet, asphalt shingle roof, plank floors, electric lighting, plumbing. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia.

**Restaurant (alts.)**, 1209 Market street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Wong Kew, on premises. Alterations to entrance, marble work, electric work, carpentry and mill work. Contract awarded Kergides & Pappas, 926 Locust street, Philadelphia.

**Store and Apartment (alts.)**, 2426 South Broad street, Philadelphia. Architects, J. Thompson & Yocum, 704 South Sixtieth street, Philadelphia. Owner, Mrs. N. M. Dugan, care of architects. Brick work, carpentry, cut stone, electric work, marble and tile work, mill work, plastering, painting, glazing, plumbing, structural steel and iron work, tin roof, galvanized iron skylights, bond. Contract awarded James Bianchini, 1924 South Thirteenth street, Philadelphia.

**George Clymer School**, Thirteenth and Richfield streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contract awarded to E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, \$7,615. Plumbing, Bullman Brothers, Fifth and Cumberland streets, Philadelphia, \$4,366. Electric heating, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$864.

**Stable**, North side School Lane, West of Oak Road, Philadelphia, \$8,500. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street,

Philadelphia. Owner, Francis R. Strawbridge, on premises. Stone, 2 stories, 48½x29 feet, electric work, slate roof. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residences (2)**, West side Percy street, East of Ridge avenue, \$6,500 each. Architect, private plans. Owner, Milton Lounes, Nineteenth and Fairmount avenue, Philadelphia. Frame, 2 stories, 16x36 feet, hot water heat, electric light, hubberoid roof, hardwood and pine floors. Contract awarded to K. G. Hickie, 2323 North Twentieth street, Philadelphia.

**Garage (alts. and add.)**, 1540-42-46 North Marston street, \$21,000. Owner, Harry H. Parker, 1527 North Twenty-eighth street, Philadelphia. Brick, 2 stories add., 27x88 feet, general alterations, cement floor. Contract awarded to R. C. Ballinger & Co., 925 Walnut street, Philadelphia.

**Residence (alts. and add.)**, 1912 Panama street, Philadelphia, \$11,000. Architect, John E. Bullock, 34 South Seventeenth street, Philadelphia. Owner, Mrs. John K. Mitchell, 1914 Panama street, Philadelphia. Mansard, fourth story add., 16x28 feet, general alterations, slag roof, electric work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Residence**, 5205 North Eleventh street, Philadelphia, \$8,000. Architect, private plans. Owner, Miss Mary Bry, 647 West Schiller street, Philadelphia. Brick, 2 stories, 20x44 feet, steam heat, electric light, oak and pine floors, slag roof. Contract awarded to John L. Kraemer, 612 West Cambria street.

**Stores (2)**, 4618-4618½ Woodland avenue, Philadelphia, \$6,000. Architect, private plans. Owner, A. Lit, on premises. Brick, 1 story, 14x30 feet, electric lighting. Contract award-

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ed to Samuel Rubin, 324 Dickinson street, Philadelphia.

**Residence**, Northwest Corner Eighty-sixth and Tincum avenue, Philadelphia, \$5,500. Architect, private plans. Owner, George C. Lines, 8519 Laycock avenue, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to William H. Spear, 8562 Laycock avenue, Philadelphia.

**Office and Shop (add.)**, 1342 Parrish street, Philadelphia, \$5,000. Architect, private plans. Owner, J. McCleso, on premises. Brick, 1 story add., 16x55 feet. Contract awarded to Pierce Heisler, 133 South Fifty-third street, Philadelphia.

**Residence (add. and alts.)**, 5208 Locust street, Philadelphia, \$5,000. Architect, private plans. Owner, H. C. Leamy, on premises. Brick, 1 story, 15x9 feet, second and third stories, 15x14 feet, general alterations. Contract awarded to Bragin Brothers, 432 McKean street, Philadelphia.

**Store and Residence (alts.)**, Southwest Corner Tenth and Green streets, \$2,000. Architect, private plans. Owner, H. Medvine, Northwest Corner Tenth and Green streets, Philadelphia. General alterations. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

**Garage**, East side Broad street, North of Hunting Park avenue, \$20,000. Architect, private plans. Owner, Fred Hawk, Northwest Corner Broad street and Roosevelt Boulevard, Philadelphia. Brick, 1 story, 37x171 feet, slag roof, cement floors, electric work. Contract awarded to Albert Dunlap, 7223 Oak Lane, Philadelphia.

**Store and Residence (alts.)**, 517 South Fourth street, Philadelphia, \$6,000. Architect, private plans. Owner, M. L. Blitzstein, Northwest Corner Fourth and Lombard streets, Philadelphia. General alterations. Contract awarded to M. Benjamin, 241 Market street, Philadelphia.

**Residence (alts. and add.)**, 5349 Greene street, Philadelphia, \$4,800. Architect, C. W. Gilmore, Fuller Building, Philadelphia. Own-

er, Andrew McCabe, 1352 Wagner avenue, Philadelphia. Brick, 1 story, 14x14 feet, general alterations. Contract awarded to George P. Clayton, 1817 North Twentieth street.

**Elevator Shaft**, 2220 Green street, Philadelphia, \$4,700. Architect, private plans. Owner, J. B. Fleischer, on premises. Brick, 3 stories, 5x4 feet. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

**Store and Residence (alts.)**, 6146 Lansdowne avenue, \$3,000. Architect, private plans. Owner, Mrs. M. Drum, on premises. General alterations. Contract awarded to Clinton Erb, 6133 Lansdowne avenue, Philadelphia.

**Store**, Northeast Corner Frankford avenue and Brill street, Philadelphia, \$2,500. Architect, private plans. Owner, Charles Osterline, Cottage and Van Kirk streets, Philadelphia. Brick, 1 story, 20x36 feet, slag roof, pine floors, electric work. Contract awarded to Lewis Deitrick, 3016 Comly street, Philadelphia.

**Residence**, East side Edmund street, North of Arendel, \$2,000. Architect, private plans. Owner, Annie Shackleton, Melrose and Linden streets, Philadelphia. Frame, 1 story, 20x46 feet. Contract awarded to Samuel Stewart, Melrose and Linden avenues.

**Garage**, 639 South Felton street, Philadelphia, \$2,000. Architect, private plans. Owner, James McKay, on premises. Brick, 1 story, 41x16 feet, slag roof, cement floors. Contract awarded to John P. Kearney, 6601 Leeds street, Philadelphia.

**Garage**, 6376 Overbrook avenue, Philadelphia, \$2,800. Architect, private plans. Owner, A. B. Cliff, 6376 Overbrook avenue, Philadelphia. Stone, 1 story, 19x21 feet, cement floors. Contract awarded to M. W. Young, 2037 North Sixty-third street, Philadelphia.

**Garage**, South side Levick street, East of Tulip street, \$2,800. Architect, private plans. Owner, Patrick Duffy, Tulip and Levick streets, Philadelphia. Brick, 1 story, 18½x52 feet, slag roof, cement floors. Contract awarded to Daniel J. Greck, 6938 Tulip street, Philadelphia.

**Residence (alts. and add.)**, East side Wisahickon avenue, North of Carpenter street, Philadelphia, \$3,000. Architect, private plans. Owners, City of Philadelphia, City Hall, Philadelphia. Brick, 1 story, 16x10 feet, general alterations. Contract awarded to Robert D. Noonan, 420 High street, Philadelphia.

**Residence (alts.)**, 1408 North Second street, Philadelphia, \$3,000. Architect, private plans. Owner, J. P. Mallon, on premises. General alterations. Contract awarded to Otto Malz, 2002 North Fourth street, Philadelphia.

**Residence and Office (alts. and add.)**, 1811 Pine street, \$8,000. Architect, private plans. Owner, Jacob Walker, on premises. Brick, 1 story, 10x14 feet, general alterations. Contract awarded to Golder Const. Co., 274 South Twentieth street, Philadelphia.

**Apartment (alts.)**, 1327 North Sixtieth street, \$2,000. Architect, private plans. Owner, Harold Cattell, 1327 North Sixtieth street, Philadelphia. General alterations. Contract awarded to Pierce & Heisler, 133 South Fifty-third street, Philadelphia.

**Workshop**, North side Sedgley avenue, West of Venango street, \$2,000. Architect, private plans. Owner, Frank Sanerwalt, 3544 North Randolph street, Philadelphia. Brick, 1 story, 20x53 feet, slag roof, pine floors. Contract

awarded to Edward B. Miller, 3435 North Marshall street.

**Alterations**, 139 Rochelle avenue, Philadelphia, \$2,000. Architect, private plans. Owners, Joseph Linton Estate, on premises. General alterations. Contract awarded to Edward J. Heinke, Twelfth and Norris streets, Philadelphia.

**Garage (alts.)**, Northeast Corner Twentieth and Oxford streets, \$5,000. Architect, private plans. Owner, A. M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. General alterations. Contract awarded to G. W. Thayer, 109 North Camac street, Philadelphia.

## Pennsylvania Construction News

**Residence**, Reading, Pa. Architect, H. Mauer, 234 North Fifth street, Reading, Pa. Owner, name withheld. Frame, 2½ stories, 32x70 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Fire House**, Ephrata, Pa. Architect, H. Raymond Heckman, Baer Building, Reading, Pa. Owners, Fire Company of Ephrata, Ephrata, Pa. Brick, 3 stories, 70x36 feet, slag roof, concrete and maple floors, steam heat, electric light. Plans in progress.

**Residence and Garage**, Reading, Pa. Architect, H. Mauer, 234 North Fifth street, Reading, Pa. Owner, name withheld. Stone, 2½ stories, 30x60 feet, slate roof, hardwood floors, tile work, vapor heat, electric light. Plans in progress.

**Rectory**, Ringtown, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Rev. P. J. Dougherty, Ringtown, Pa. Frame, 3 stories, 41x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will be ready for bids in one week.

**Residence and Garage**, Wayne, Pa. Architect, J. L. Cannaroe, 225 South Sydenham avenue, Philadelphia. Owner, name withheld. Frame, 2½ stories, 26x50 feet, and wings, garage, 20x22 feet, hot water heat, electric light, tile and marble work, shingle roof, hardwood and cement floors. Plans in progress.

**Office (add.)** Harrisburg, Pa., \$75,000. Architects, Lawrie, Green Co., Commonwealth Building, Harrisburg. Owners, Harrisburg Light & Power Co., 22 North Second street, Harrisburg, Pa. Brick, 2 stories, 45x28 feet, pine floors, electric lighting. Plans in progress.

**Ice Cream Factory (add.)**, Shamokin, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, C. A. Tharp & Son, Shamokin, Pa. Reinforced concrete, structural steel, face brick, 2 stories and basement, 68x36 feet, built-up roof, electric light, steel rolling doors, wood sliding doors, cast-iron, rolled steel sash. Plans in progress.

**Garage and Apartment**, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, O. Cook, care of architect. Brick, steel and cinder block, 3 stories, 100x40 feet, slag roof, pine and concrete floors, electric light, metal lath, steel sash. Plans in progress. Owner, care of architect, will sub-let.

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**Residence**, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, J. A. Boyer, 504 Broadway, Bethlehem, Pa. Brick, 2 stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light tile work. Plans in progress.

**Parochial School**, Marshall street and But-  
tonwood street, Norristown. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Francis' Roman Catholic Church, F. J. Ross, D. D., Norristown. Architect selected. Preliminary plans in progress. Too early for details.

**Residence**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, H. C. Frenblau, care of architects. Cinder block and stucco, 2 stories, 40x40 feet Vermont slate roof hardwood floors, vapor heat, electric light, tile work. Plans in progress.

**Residence and Garage**, Sellersville, Pa. Architect, Charles M. Talley, Telford, Pa. Owner, E. W. Simkins, Sellersville, Pa. Brick, 2½ stories, 30x40 feet, garage, 1 story, 20x20 feet, vapor heat, electric light, slate roof, hardwood floors, tile and marble work, cement. Plans in progress. Architect will take bids in one week.

**Apartment (alts. and add.)**, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, A. Wridecer, care of architect. Brick, 2 stories, 20x20 feet, and third story add., 40x40 feet, slag roof, pine floors, hot water heat, tile work. Owner will build.

**Garage**, Bethlehem, Pa. Architect, E. R. Biting, Odd Fellows' Building, Bethlehem, Pa. Owner, Ralph Fareinci, South Bethlehem, Pa. Brick, 1 story, 42x74 feet, slag roof, cement floors, electric light, steel sash. Owner will build.

**School**, Greensburg, Pa. Architects, Maurice Kressley Co., 13 North Fourth street, Harrisburg. Owners, Greensburg School Board, Mary M. Peoples, secretary, Greensburg, Pa. Brick, steel, concrete, 2 and 3 stories, 316x189 feet, tile roof, composition floors (heating, plumbing, ventilating and electric work reserved), metal lath, rolled steel skylights, safety treads. Owners ready for bids due October 27th.

**Factory**, Jonestown, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, S. Liebovitz & Son, Jonestown, Pa. Frame, 1 story, 30x40 feet, composition roof, wood floors, electric light. J. Schlott, R. F. D. No. 3, Ephrata, Pa., taking bids.

**Rectory**, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Sts. Simon and Jude's Parish, Rev. E. Stapleton, Bethlehem, Pa. Brick, 3 stories, 37x76 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile wor. Architect ready for bids due October 20th.

**High School**, Springfield, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School Board of Springfield Township, Montgomery County, Pa. Brick, stone, cut stone, 2 stories and basement, 146x100 feet, 61x44 feet, composition and tin roof, cement floors, hollow tile roof, ventilators, ornamental iron work, bond, metal lath, electric light, steam heat. Architects taking bids due November 1st.

**Girls' Dormitories**, Swarthmore, Pa. Architects, Karcher & Smith, 3 South Seventeenth street, Philadelphia. Owners, Swarthmore College, Swarthmore, Pa., Frank Aydelotte, president. Stone, cut stone, steel, 2½ stories, 107x37 feet, 27x31 feet, 26x39 feet, 50x24 feet, slate roof, cement and pine floors, hollow tile metal lath, tin clad doors, bond, ornamental iron work, terra cotta, waterproofing, steam heat, electric light. Architects taking bids due October 22nd.

**Residence and Garage**, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, William H. Crane, care of architect. Stone, 2½ stories, 43x26 feet, garage, 12x14 feet, slate roof, oak and pine floors. Architects taking bids due October 18th.

**Residence (alts. to Church)**, Royersford, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sacred Heart Roman Catholic Parish, care of Rev. Charles McCarron, Royersford, Pa. General alterations. Architect taking bids due October 18th, 2 P. M.

**High School Building**, Norristown, Pa. Architect, Oliver Randolph Perry, 1524 Sansom street, Philadelphia. Owners, School District of Norristown, C. I. Moore, secretary of Special Building Committee, High School Annex, 717 Dekalb street, Norristown. Brick, steel, stone, 269x149 feet, 2 stories (plumbing, heating, electric separate bids), slag roof, cork, concrete, composition, maple floors, hollow tile, roof ventilators, waterproofing, iron work, bond, hollow metal doors skylights and sash, marble work, metal lath. Owners taking bids due October 30th, 8 P. M.

**School**, Woodlyn, Delaware County, Pa. **School (add.)**, Leipersville, Delaware County, Pa. **School (Kerdon Grade) (alts. and add.)**, Kerdon, Delaware County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School District of Ridley Township, Delaware County, Pa. All bids rejected.

**Residence**, Rydal, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Wayne Herkness, Land Title Building, Philadelphia. Stone, 2½ stories, 30x80 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, iron work. Architect taing revised bids due October 20th.

**School Building**, Montgomeryville, Pa. Architects, C. E. Schermerhorn and W. K. Phillips, 430 Walnut street, Philadelphia. Owners, School District of Montgomery Township, Pa. Brick, stone, 1 story, 72x84 feet (heating, plumbing, lighting reserved), slate or shingle roof, pine and cement floors. Low bidders: H. C. Shallcross, Gratersford, Pa., \$27,256. Plumbing, Snowden Brothers, 5028 Sansom street, Philadelphia, \$2,349. Heating, American Heating and Ventilating Co., 200 North Fifteenth street, Philadelphia, \$3,300. Electric, C. M. Reiley, Ambler, Pa., \$322.

**Bungalow**, Oxford road, Brookline, Pa. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, William J. Fullmar, 1532 North Sixty-first street, Philadelphia. Hollow tile and stucco, 1½ stories, 24x43 feet, hot water heat, electric light, tile work, slate or shingle roof, hardwood floors. Plans completed. Owner taking sub-bids.

## Pennsylvania Contracts Awarded

**School**, Watsontown, Pa. Architect, W. H. Lee, 1505 Race street, Philadelphia, Pa. Owners, Johnstown School Board, F. E. Kirk, secretary, Watsontown, Pa. Brick, stone, 3 stories, 75x70 feet, built-up roof, pine floors unit system heating, electric lighting, reversible sash, iron and steel work. Contract awarded Albert Boyer, Northumberland, Pa. Heating, Hersh Brothers, Allentown, Pa. Plumbing, A. W. Gortner & Son, Shamokin, Pa. Electric, W. A. Tydeman, Reading, Pa.

**Home**, Middletown, Pa., \$309,000. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owners, Pennsylvania Home, I. O. O. F., Middletown, Pa. Reinforced concrete, cut stone, castone, brick and steel, 3

stories and basement, 299x38 feet, (2) wings, 15x33 feet, slate and slag roof, cement and composition floors, hollow tile, roof ventilators, iron work and stairs, bond, hollow metal doors, rolled steel sash, tile, marble and terrazzo work, metal lath. Contract awarded Shamokin Lumber & Cont. Co., Shamokin, Pa. Plumbing, T. H. Williams, Harrisburg, Pa. Heating, Hersh Brothers, Allentown, Pa. Electric, Keller Pike Co., 1213 Race street, Philadelphia.

**Sunday School and Parsonage**, Sunbury, Pa., \$106,460. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, First Reformed Church, Sunbury, Pa. Brick and stone, 3 stories, 96x52 feet and 32x40 feet, slate roof, maple floors, concrete work, hot water heat, electric light, plumbing, tile work, rolled steel sash, structural steel, iron work. Contract awarded D. A. McKinney, Sunbury, Pa.

**Filling Station**, Mt. Carmel, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Jewell Oil Co., Shamokin, Pa. Brick, 1 story, 16x30 feet, tile roof, cement floors, hot water heat, electric light. Contract awarded E. R. Bastress, Mt. Carmel, Pa.

**Residence**, near Leesport, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Carrie Whitner Rick, Reading, Pa. Stone, fireproof, 2½ stories, 34x110 feet, slate roof, hardwood floors, electric light, tile and marble work. Contract awarded to Fink Const. Co., 658 Penn street, Reading.

**Abattoir (alts. and add.)**, Reading, Pa. Architect, P. O. Kley, Shenandoah, Pa. Owners, Reading Abattoir, 216 Pine street, Reading, Pa. Reinforced concrete and steel, 2 stories, 60x75 feet, slag roof, vitrified brick floors, hollow tile, electric work, metal lath, rolled steel sash, fire doors. Contract awarded to Sharp Const. Co., 22 North Fifth street, Reading.

**Garage**, Reading, Pa. Architect, H. Mauer, 234 North Fifth street, Reading, Pa. Owner, W. Moyer, care of architect. Brick, 1½ stories, 32x24 feet, slate roof, concrete floors, electric lighting. Contract awarded to Charles Schlegel, 2250 Perkiomen avenue, Reading, Pa.

**Residence**, Ridley Park, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, N. T. Wellman, care of architect. Frame, 2 stories, 34x23 feet, wing 18x18 feet, hot water or vapor heat, shingle roof, electric light, hardwood floors, 2 baths. Contract awarded to J. N. Roberts, 33 South Lansdowne avenue, Philadelphia.

**Residences**, No. 2, Haverford, Pa. Architect, Charles F. Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 95x26 feet, slate roof, oak and pine floors, tile work (plumbing, heating and electric wor reserved). Contract awarded John E. Kearney, 34 South Sixteenth street, Philadelphia.

**Temporary Chapel**, Glenolden, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. George's Roman Catholic Church, care of Rev. Orr, Glenolden, Pa. Frame, 1 story, 22x65 feet, hot air heat, electric light, slag roof, pine floors. Contract awarded J. C. Mahoney, Drexel Hill, Pa.

**Residence**, Oak Side, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, C. Rienochl, care of architects. Brick and cinder block, 2 stories, 20x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to E. S. Kester & Co., Twenty-seventh and Greenleaf streets, Allentown, Pa.



**Twin Bungalows**, Telford, Pa. Architect, Charles M. Talley, Telford, Pa. Owner, F. H. Fenstermacher, Telford, Pa. Frame, 1½ stories, 50x20 feet, hot air heat, electric light, shingle roof, pine floors. Contract awarded H. H. Minninger, Souderton, Pa.

**Residence and Garage**, Chest Mill Road, Wynecote, Pa. Architects, Zantinger, Borie & Medary, Otis Building, Philadelphia. Owner, B. Lippincott, care of architect. Brick and stucco, 2½ stories, 25x40 feet, shingle and canvas roof, oak and pine floors, tile work, electric light, hot water heat. Contract awarded to E. Allen Reeves, Abington, Pa.

**Office (alts.)**, Perkasio, Pa. Architect, Charles M. Talley, Telford, Pa. Owner, Dr. O. H. Strouse, Perkasio, Pa. Brick, hot air heat, tin roof, hardwood floors. Contract awarded Morris & Stoneback, Perkasio, Pa.

**Apartment (add.)**, 332 West Sixth street, Allentown, Pa. Architect, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, C. B. Rarerdini, on premises. Brick, 2 stories, 60x18 feet, Barrett Specification roof, pine floors, vapor heat, electric light. Contract awarded to F. Yeakel, 1420 Liberty street, Allentown, Pa.

## New Jersey Construction News

**Residences (2)**, Oak Lane, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, T. F. Nolan, 228 North Warren street, Trenton, N. J. Brick, 2½ stories, 64x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence**, Morris Heights, N. J. Architects, W. W. Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, J. A. Williams, 25 Newell street, Trenton, N. J. Hollow tile and stucco, 2 stories, 90x25 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Residence**, Somerville, N. J. Architects, W. W. Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, J. Reger, Somerville, N. J. Tile and stucco, 2½ stories, 80x30 feet, slate roof, hardwood floors, hollow tile, hot water heat, electric light, tile work. Plans in progress.

**Hotel Beacon by the Sea (alts.)**, Point Pleasant, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, care of architect. Exterior and interior alterations to 3-story building, metal lath, tile work, hardwood floors, partitions. Plans in progress. Will be ready for bids in two weeks.

**Stable**, Westover, Pa. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Edmund D. Cook, Jr., care of architect. Frame, 2½ stories, 82x28 feet, shingle roof, concrete floors, hot water heat, electric light. Plans in progress.

**Residence**, Westover, Pa. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owner, Edmund D. Cook, Jr., care of architect. Frame, 2 stories, 25x22 feet, shingle roof, pine floors, pipeless heat, electric light. Plans in progress.

**Hotel Beacon by the Sea**, Point Pleasant, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, care of architect. Brick and frame, 3 stories, 45x170 feet, tile roof, hardwood floors, hollow tile, elevators, electric lighting, metal lath, tile and marble work, fire doors, ornamental terra cotta. Plans in progress. Will be ready for bids in two weeks.

**Residence**, Morris Heights, N. J. Architects, W. W. Slack & Son, St. Regis Theatre Building, Trenton. Owner, A. F. Robertshaw,

Morris Heights, N. J. Brick, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

**Cottage**, South Weymont avenue, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. Bogarth, Egg Harbor, N. J. Frame and stucco, 2½ stories, 24x28 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

**Residence and Garage**, Merchantville, N. J. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, William H. Simpson, care of architect. Hollow tile and stucco, 2½ stories, 43x52 feet, 1 story, 20x20 feet, hot water heat, electric light, tile and marble work, shingle roof, hardwood floors, cement work. Architect will take bids in two weeks.

**Apartment**, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Bornstein, Frank & Uram, care of architect. Brick, steel, 3 stories, 36x72 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile work, roof ventilators, skylights. Owners and architect taking sub-bids.

**Hotel (alts. and add.)**, South Kentucky avenue, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, Miss Margaret Healy, on premises. Brick and frame, 2 stories, 12x40 feet, slag roof, hardwood floors, electric light, general interior alterations. Plans in progress.

**Store and Apartment**, Gloucester, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Black & Anders, Gloucester, N. J. Brick and cinder block, 2 stories, 80x80 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

**Residence (add. and alts.) to Apartment**, Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mrs. W. P. Fowles, Merchantville, N. J. Lumber, general interior alterations, partitions, steam heat, electric light. Plans in progress.

**Store Front**, 427 Broadway, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, A. S. Polotz, on premises. Plate glass, cement work. Plans in progress.

**Rooming House (alts. and add.)**, Atlantic avenue, Atlantic City. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Mrs. A. Deutsch, 145 Ocean avenue, Atlantic City, N. J. Brick, 4 stories, 28x14 feet, 31x12 feet, slag roof, pine floors, electric light, metal lath, tile work. Plans in progress. Will be ready for bids in two weeks.

**Shelter Shed and Waiting Room**, Concourse Waiting Room, Trenton. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Steel and wood, 300x30 feet, slag roof, pine floors, electric light. Plans in progress.

**Junior High School**, Cherry and Westfield streets, Elizabeth, N. J. Architects, Kilham, Hopin & Greeley, 9 Park street, Boston, Mass. Owners, Board of Education, Elizabeth, Union County, N. J. General construction, plumbing, heating, ventilating, electric wrecking. Owners taking bids due October 24th, 8 P. M.

**Bell Telephone Building**, Princeton, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware & Atlantic Telephone & Telegraph Co., care of Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 2 stories and basement, 96x33 feet, steam heat, electric light, metal lath, tile and marble work, glass slate skylights, bond, slate roof,

composition and cement floors. Architect taking bids due October 18th.

**Dudley Hotel (alts. and add.)**, 28-32 South Pennsylvania avenue, Atlantic City, N. J. Architect, M. B. Silverstein, 119 Springfield street, Newark, N. J. Owner, Louis R. Pollock, on premises. Brick, 3 stories, 90x30 feet, Barrett Specification roof, hardwood floors, electric light, metal lath, tile, marble and terrazzo work, rolled steel skylights, terra cotta trim. Owner taking bids.

**Residence**, Beach Haven, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, Mr. Lackey, care of architects. Frame, 2 stories, 25x50 feet, shingle roof, pine floors, electric lighting, plaster board. Architects taking bids due October 19th.

**Vocational School (add.)**, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, H. H. Young, Atlantic City, N. J. Brick, steel, concrete, 5 stories, 34x114 feet, slag roof, concrete floors. Lowest bidder, M. B. Markland, Guarantee Trust Building, Atlantic City, N. J.

**Grade School**, Paulsboro, N. J. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Borough of Paulsboro, N. J. Low bidders: G. W. Shaner, Palmyra, N. J., \$116,720; Chester Cont. & Const. Co., Chester, Pa., \$121,990. Electric, Enterprise Electric Co., 230 South Tenth street, Philadelphia, \$3,300. Plumbing, R. J. Hoben, 258 South Van Pelt street, Philadelphia, \$6,470. Heating, H. J. Hutchinson, 1020 Callowhill street, Philadelphia (split steam), \$13,333; J. J. Nesbitt, Atlantic City, N. J. (universal unit system), \$16,998; American Heating & Ventilating Co., 100 North Fifteenth street, Philadelphia (hot air), \$7,998.

## New Jersey Contracts Awarded

**Public School**, Woodbury, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Board of Education, Woodbury, N. J. Contract awarded to T. M. Gibbs Cont. Co., 215 South Broad street, Philadelphia, \$296,983. Plumbing, W. Newell, 1707 Sansom street, Philadelphia, \$14,866. Electric, Enterprise Elec. Co., 239 South Tenth street, Philadelphia, \$11,399. Heating, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, \$38,961.

**Double Residence**, Atlantic City, N. J., \$11,400. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City. Owner, Mrs. Louise Desney, 308 North New Hampshire avenue, Atlantic City, N. J. Frame, 2½ stories, 24x40 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Mr. Clevenger, Pleasantville, N. J.

**Stanley Hotel (alts. and add.)**, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owners, Stanley Hotel Co., Inc., care of architect. Brick, hollow tile and stucco, 1 and 5 stories, 32x20 feet and 40x90 feet, slag roof, pine floors, hollow tile, electric light, tile work. Contract awarded to Charles Thompson, Pleasantville, N. J.

**Garage**, 210 Brunswick avenue, Trenton, N. J. Architect, H. G. Aitken, American Mechanics' Bank Building, Trenton, N. J. Owner, John White, on premises. Cement block and structural steel, 1 story, 25x50 feet, slag roof, concrete floors, electric lighting, rolled steel sash. Contract awarded to F. J. Bayer, 25 Lewis street, Trenton, N. J.

**Residence (alts. and add.)**, Pleasantville, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, M. K. Boyajian, 1909 Boardwalk, Atlantic City, N. J.



Brick, stucco, 2 stories, slate roof, hardwood floors, electric light, tile work. Contract awarded to Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

## HOW ELECTRICIANS MAY REDUCE FIRE HAZARDS

During the year 1921, the last for which detailed statistics have been used by the National Board of Fire Underwriters, the loss from fire in the United States reached the stupendous total of \$495,406,012.

Of this loss, \$12,723,209 is charged to electricity, fires attributed to that cause ranking fifth in destructiveness. The newspapers and the general public ascribe this terrific loss to "defective" wiring, because it is generally known that there is no safer form of power, light and heat than electricity, and the popular assumption is that wiring is always to blame when fire is caused by an electric current. The figures constitute in the public mind a fearful indictment against electrical wiring, electrical workmen and electrical contractors—an indictment that is utterly without justification, because practically all wiring is safe when installed.

Definite figures on this point are not available, but it is practically certain that they would show that fires caused by electric current originate in about the following order:

- 1—From overloading by attachments, such as washing machines, electric irons, cleaners, etc., without consulting an electrician as to the capacity of the system.
- 2—From amateur interference with circuits after installation.
- 3—From injury to insulation by rats, mice or accidental cause.
- 4—From overloading of circuits by extensions, made by amateurs or by electricians under pressure of owners unwilling to bear the expense of replacing original lines.
- 5—Sparkling by motors.

Of course these are direct causes of fire from electric current; the indirect cause will be found in wiring that fails to provide adequate protection against such conditions.

It is safe to say that fifty per cent. of the dwellings now using electricity were wired before the use of electrical appliances in homes became common, and no provision was made for the load required to operate these in conjunction with the proper number of lamps. The original fuses in thousands of homes have been replaced with others sufficient to carry the load, the home owner knowing nothing of the danger attending such a proceeding. It is, therefore, surprising that the number of fires caused by overloaded circuits has not been larger. That this old wiring was well done is more

than evident from the fact that most of it was of the unprotected variety and nearly all of it has since been called upon to do work far beyond the margin of safety originally provided. Fires from overloaded circuits are practically unknown where rigid conduit or a good steel armored cable is used.

The important fact is that there have been enough fires directly traceable to the failure of unarmored wiring under the circumstances outlined above to create in the public mind an impression that every fire which cannot be certainly ascribed to some other cause should be credited to "defective wiring." That such an impression does exist is shown by the readiness with which this term is used by the newspapers, which, of course, cannot and do not explain why the wiring was defective, even in cases where there is evidence that it was responsible for fire.

The conditions above described are certain to react strongly against the use of electricity for many purposes for which it is most valuable, eventually affecting both the sale of electrical appliances and the installation of electric wiring. The whole industry is therefore vitally interested in removing such conditions, and the logical way to do this is to increase the use of rigid conduit or good armored cable. The ideal wiring is, of course, that enclosed in rigid steel conduit, but where the cost prevents this, approved armored cable should be used, especially since good steel armored cable can be installed at very slight additional cost, provides effective protection against overloaded circuits, and prevents "tinkering" with wiring by unskilled persons who prefer to take chances rather than pay for the services of an electrician.

During the past year in the State of Ohio three women were electrocuted in laundries at their homes. In every case it was found that the fatalities were caused by wiring which had been installed in accordance with the local code, but had been changed afterward by the owner of the building. It had worked all right until a combination of his larger capacity fuse, his brass socket, a concrete floor and a weak heart brought about a catastrophe. Of course, the electrician who installed the service and the corporation which furnished the current were accused of causing these tragedies, and in one case a court trial was necessary to establish their innocence and make plain the real cause.

Few cities or towns are without a legally established code, supposed to provide against these contingencies, at least to a reasonable extent. All of these codes provide for authorized inspection, and electricians generally respect their provisions. The trouble arises from the fact

that these codes provide solely for the safety of the wiring at the time it is inspected, or perhaps for a reasonable degree of assurance that short circuits and overloads will not occur naturally. They cannot and do not provide against experiments by the owner or occupant with a handy turn and just enough knowledge of electrical details to make him dangerous. Nor do they provide for the thousand and one emergencies that are sure to confront every electrical installation during its lifetime, unless it is protected against injury, changes and extensions by the unskilled.

These are conditions which probably prevail in four-fifths of the houses in this country enjoying electric service. They are not the fault of the industry, so much as that of the public. They could be avoided by the use of rigid conduit or a good armored cable, but the cost would be greater, and the average contractor finds that his customers insist on the lowest possible cost. Nevertheless, if the actual difference in the cost of open wiring and that in which a thoroughly good armored cable is used were more generally known, it is certain that architects and electrical contractors would more strongly recommend protected wiring for small residences. The smaller home is the most important unit from this standpoint, because more expensive buildings are generally wired with rigid conduit, architects and engineers understanding the necessity for protecting wires in these structures and the restrictions as to cost being less exacting.

With a view of securing reliable data on this subject, The Youngstown Sheet & Tube Company, which manufactures both rigid conduit and steel armored flexible cable, recently arranged with the Lakewood Electric Company, one of the more prominent contracting firms in Cleveland, Ohio, to wire two similar houses—one with knob and tube and the other with Realflex, and keep an accurate and detailed account of the relative cost. The houses selected were two-family dwellings, of fairly good type, arranged with five rooms and bath on each floor and having a cellar and attic. Each room has a suitable opening for ceiling light, and provision was made for side lights in the bathrooms. Baseboard and porch light openings were located conveniently. The work in both houses was done by the same men, and the number and location of openings is identical.

Actual cost of the two types of wiring is given below. It should be stated that the workmen were unfamiliar with armored cable, this being the first new job on which they had used it exclusively, and the item of labor on the cable job is therefore probably somewhat higher than it might have been otherwise.



The Lakewood Electric Company.  
Job No. 628—Knob and Tube.  
3707-09 Cecelia Ave.

1430'	No. 14 Wire .....	\$ 8.58
330'	Loom .....	4.95
300	Knobs .....	2.67
300	Tubes .....	1.20
40	6" Tubes .....	.32
16	1—Gang Boxes .....	1.20
3	2—Gang Boxes .....	.45
2	3—Gang Boxes .....	.48
40'	Speaking Tube .....	1.04
7	Speaking Tube Ells .....	.24
115'	Bell Wire .....	.55
20	Hours Labor .....	22.00
	Permit .....	2.80
15'	No. 12 Wire .....	.13
400'	No. 14 Wire .....	2.40
60'	Loom .....	.90
3	Cabinets .....	.96
3	2 Circuit Boards .....	.90
75	Knobs .....	.67
100	Tubes .....	.40
20	6" Tubes .....	.16
8	Base Receptacles and Plates .....	2.32
15	Single Pole Switches .....	2.80
4	3 Way Switches .....	.92
2	Mouth Pieces .....	.24
1	Door Lock .....	1.65
2	Transformers .....	1.45
5	Push Buttons .....	.90
2	Bells .....	.82
3	Buzzers .....	.78
8	1—Gang plates .....	.88
3	2—Gang plates .....	.63
2	3—Gang plates .....	.66
12	Hour Labor .....	13.20
		<hr/> \$80.25

The Lakewood Electric Company.  
Job No. 116—Realflex Armored Cable.  
3711-3713 Cecelia Ave.

808'	Wire Realflex .....	\$36.36
57	B. X. Conductors .....	2.05
8	3" Outlet Boxes 1/2" K. O. .....	.86
1	Concealed Receptacle .....	.19
3	2 Circuit Boards .....	.90
3	6x8 Cabinets .....	.96
2	Bell Transformers .....	1.45
20'	Loom .....	.30
35'	No. 12 .....	.29
50	3 Wire No. 14 Realflex .....	4.30
10	1/2" Straps .....	.05
14	2/8" Straps .....	.05
17	Hangers .....	2.30
10	B. X. Boxes .....	1.50
12	H. H. Boxes No. 1101 .....	1.35
3	2 Gang Boxes No. 902 .....	.54
17	Shallow Ceiling Pans 4"x1" .....	3.06
31	Copper Connectors .....	2.79
1 1/2	Ibs. Bell Wire .....	.55
28'	Speaking Tube .....	1.04
8	Ells .....	.24
23	Hours Labor .....	25.30
	Permit .....	2.80
8	Base Receptacles and Plates .....	2.32
15	Single Pole Switches .....	2.40
4	3 Way Switches .....	.92
8	1—Gang plates .....	.88

3	2—Gang plates .....	.63
2	3—Gang plates .....	.66
2	Mouth Pieces .....	.24
1	Door Lock .....	1.65
5	Push Buttons .....	.90
2	Bells .....	.82
2	Buzzers .....	.78
8	Hours labor finish .....	3.30
		<hr/> \$104.71

It is unfortunate that no adequate idea of the difference in the appearance of the two jobs can be given because it is impossible to present a photograph showing the whole. Where this material has been used, any changes or extensions must be made by a skilled mechanic, since there are no open wires. Attention is called particularly to the basement in the cable-wired house, in which there are no unprotected wires except those of the bell system, which are connected to the service by the usual transformer. The usual number of cellar openings is provided, these being served from the first floor. Contrast this with the open wiring in the basement of the other house.

It will be seen from the figures given above that the cost of wiring a house of this kind, which is fairly typical of the structures in which steel armored cable should be used, is increased only about 25 per cent. by the use of cable—an increase amounting in this case to the trifling sum of \$24.46 for two six-room dwellings. The owner of these houses examined the two jobs of wiring after they had been completed, but before the relative cost had been obtained, and stated that the Realflex job was so evidently superior to that, on its appearance alone, he would be glad to pay 30 per cent. additional for the cable.

These facts and figures can be substantiated by anyone. They are convincing evidence that economy and safety are both secured by the use of a good armored cable in installations of this type, and they should lead to a greater insistence on the part of electrical contractors that their customers permit the installation of wiring that will not only remain as it is installed unless changed by some one who knows how, but will also be safe from the countless accidents to which the ordinary knob and tube installation is liable. Every electrical contractor who follows this suggestion will help to reduce the fire losses of the country and relieve the electrical industry from the odium of being credited with an annual fire loss of more than twelve million dollars.—*National Builders' Bulletin*.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

## PAINT AS AN INSURANCE POLICY AGAINST THE ELEMENTS

Too few home builders and building investors look upon painting a home or other building as simply a color and a luxury, instead of a preservative and an insurance policy against the constant deterioration from the elements. For any building of lumber, brick, cement or stucco will require painting inside and out to keep it safe from the unremitting attack of wear and weather.

When the surface is unprotected, wood deteriorates rapidly. Delay in painting may mean new siding and unnecessary repairs. When paint is worn off the cornice it won't be long before a new cornice will be required. Paint is much cheaper than new materials, for repainting will run to 6 or 7 per cent. of the value of your building, while without painting, deterioration will go as high as 30 per cent. of the value, readily disclosed when one borrows funds upon it as security or attempts to sell.

Painting is not only first cost, it is upkeep and overhead expense after the building is complete. Many a house of good architectural design loses 50 per cent. of its beauty because of poorly applied paint, both in color scheme and workmanship. For those who demand reasons there are three on why one should keep the inside and outside of a building painted. First, quality paint and workmanship protect and preserve the wood finish, trim, exterior siding, shingles, etc. Second, attractive, practical painting adds cash value to the investment. Anything that improves neighborhood appearances, that adds beauty to home surroundings, increases real estate and property values. Third, a home or business building represents a going concern, a business investment with fixed credit or cash rating. Those who loan on such will declare that a well painted building is a better money risk with a greater loan or selling value.

—*Building Industry*.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—*Elbert Hubbard*.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H. ....1209 Arch St., Phila.  
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Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BOILER AND PIPE COVERINGS.

Keasbey & Mattison Co. ....1927 Market St., Phila.  
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## CEMENT WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## COLD STORAGE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....Darby, Pa.  
Gramm, Price, Turner, Inc.,  
176 E. Tulpehocken St., Phila.

## CONCRETE WORK.

Massiah, Frederick. Juniper and Cypress Sts., Phila.

## CORK FLOORING

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ....316 N. 3rd St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## HOUSE CLEANING.

Keystone House & Window Cleaning Co.,  
1219 Filbert St., Phila.

## HOUSE MOVING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co. Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....18 S. 7th St., Phila.

## LEVELS.

Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LINOLEUM.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LINOTILE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Ketcham, Howard. ....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## ORNAMENTAL IRON.

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Pettit, Frank, Ornamental Iron Works,  
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## PAVING BRICKS.

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## PHOTOSTATS.

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## PLUMBING FIXTURES.

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## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Lukens, Lewis N. ....19th and Washington Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEET METAL AND ROOFING.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## SHEETROCK (Wall Board).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## SHORING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

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Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS.

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Morrissey Bros. ....4345 N. 7th St., Phila.

## STEEL SASH.

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STONE.

Brenz, Wm. P. ....5321 Baltimore Ave., Phila.  
John D'Lauro.....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair.....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

Robbins, Chas. H. ....1209 Arch St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## UNDERPINNING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## WALL BOARD, COMPO BOARD

Ketcham, Howard .....3rd and Girard Ave., Phila.

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Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

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Clausen, Wm. H. ....27th and Diamond Sts., Phila.

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Borden Stove Co. ....1026 Arch St., Phila.  
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## WATER PAINT.

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## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## WHITENASHING.

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## WINDOW CLEANING.

Keystone House & Window Cleaning Co.,  
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Cyclone Fence Co. ....20 S. 15th St., Phila.

## WIRE PARTITIONS.

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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 43  
October 24, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
and the Material and Equipment Trades

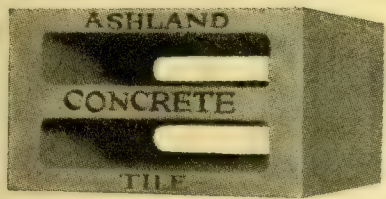
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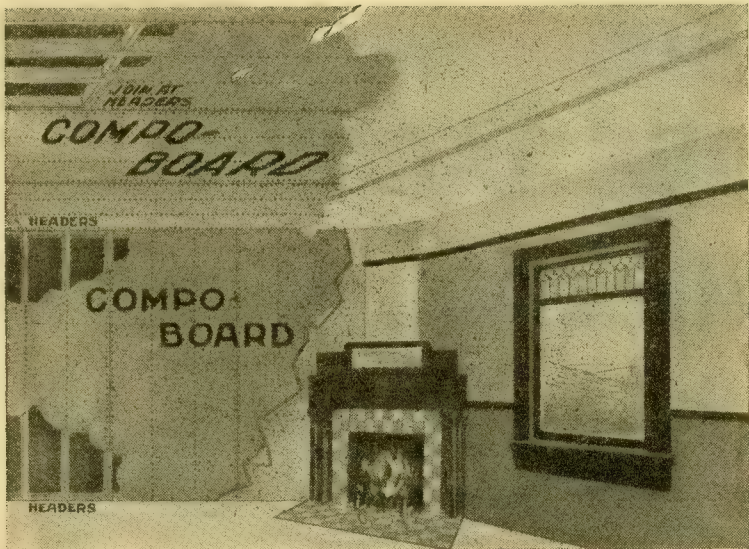
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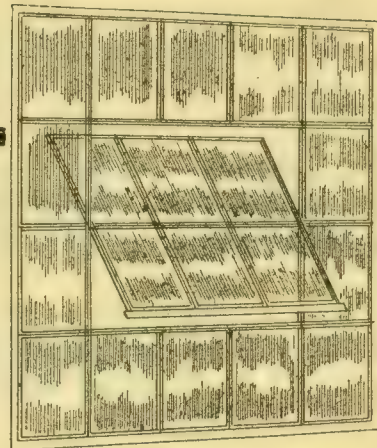
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## Sales of Navy Surplus by Public Auction as follows

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With a view towards disposing of all Navy Surplus available in and around Boston, Mass., three sales-by public auction have been planned as follows :

**SALE OF BUILDINGS IN THEIR ENTIRETY, OF STEEL AND IRON CONSTRUCTION, LOCATED AT THE DESTROYER AND SUBMARINE BASE AT SQUANTUM, (NEAR BOSTON), MASSACHUSETTS, HAS BEEN PLANNED AT PUBLIC AUCTION ON OCTOBER 29, 1923. CATALOGUE 528-A COVERS ALL DETAILS AS TO SIZE, DESCRIPTION, ETC.**

In addition to the sale of buildings above referred to, additional sales will be held as follows :

**SALE OF OCTOBER 25, 1923, CATALOGUE 536-A.**  
At the Destroyer and Submarine Base, Squantum (near Boston), Massachusetts. In this sale there will be included the remaining items of surplus such as boat chain, rivets, chain studs, scrap, etc.

**SALE OF OCTOBER 26, 1923, CATALOGUE 527-A.** At the Navy Yard, Boston, Massachusetts, covering surplus materials of a general character in large quantities, and condemned materials.

Sales will be held on the dates specified at 10 A. M. (Eastern Standard Time), unless otherwise stated in the Catalogue. Catalogues of sale containing all details as to description and terms of sale may be obtained upon application to the auctioneers ; namely, J. E. Conant & Company, Lowell, Massachusetts, or the undersigned.

**CENTRAL SALES OFFICE, Navy Yard, Washington, D. C.**

## 1924 Directory of the Architectural and Building Trades of Philadelphia

Now being compiled, will be issued January, 1924. To be sure you are correctly listed under the classifications desired, send in listings promptly.

Advertisements under all classifications precede listings. To get preferred positions, call

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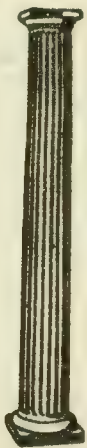
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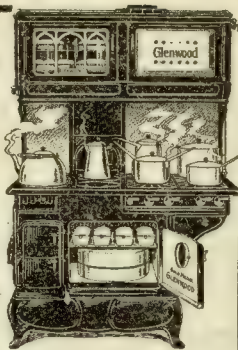


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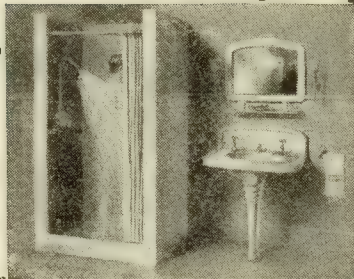


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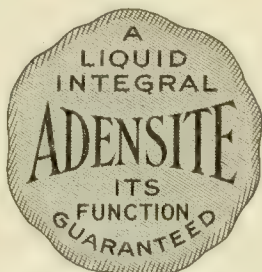
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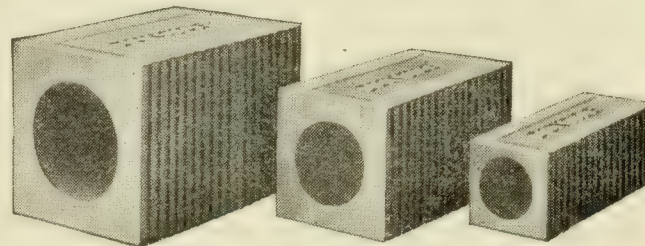
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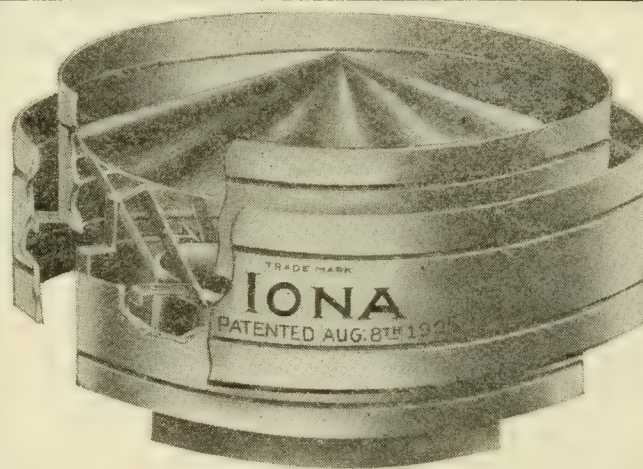
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 43

PHILADELPHIA  
October 24, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

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## As The Editor Sees It



Conditions affecting construction activities next Spring will be closely similar in character to those which prevailed at the opening of the eccentric building season of 1923, according to indications drawn from statements of leading general contractors and other observers of the trend of operations. These statements, made for the *Constructor*, the publication of the Associated General Contractors of America, stripped of localisms, also seem to coincide upon the thought that owners and others will do well to use caution next year in timing their operations, lest a "mad market" for labor and materials, such as threatened early this year, be encountered and the entire situation demoralized.

The belief in some quarters, as expressed in the statements published in the current issue of the *Constructor*, also seems to be that an unusual amount of work is to be undertaken for completion during the first months of 1924. In some sections of the country, where the deficiency in buildings is especially noted, leaders are advocating that winter construction be urged, with a softening of prices, of materials, and of wages, being held as inducement for this step to be taken to avert an extraordinary demand during the months when construction most ordinarily is placed under way.

Many of these individual statements deal directly with the question of whether curtailment of operations, such as was

advocated and initiated by the Associated General Contractors of America last Spring, be held as policy next year to avoid run-away prices of materials and costs of labor, or whether a relaxation, perhaps entire absence of action, will be more advisable.

Quotations from a number of the statements appearing in the *Constructor* follow:

James Baird, George A. Fuller Co., New York—Judging from the permit record covering the period of June, July and August, there is assurance the country in general having a large building program for this coming year; consequently, I look for a very serious labor shortage again in the spring. There is so much speculative work contemplated that I do not think it would be desirable to encourage it too much. Personally, I would prefer to see a seasonable amount of the work postponed until we are assured of a more ample supply of labor and material.

H. W. Baum, H. W. Baum Company, Salt Lake City—It is our opinion that there is not likely to be a situation during the coming year which will require curtailment in any substantial form in the construction activities of the inter-mountain district.

L. C. Wason, Aberthaw Company, Boston—My forecast for the future is that there will be slight reduction in building

costs through the winter, due to softer spots in the material markets and increased labor efficiency, but that the usual spring building activity will bring costs back to about the present level. Therefore a "Build Now" campaign for fall and winter is in the line for stabilizing the industry and giving the investors a square deal.

Sumner Sollitt, Sumner Sollitt Co., Chicago—Men available for construction are not now plentiful. I thoroughly believe that no propaganda at the present time, either for obstructing or accelerating the desire for contemplated construction, is necessary. Moderate price residential work will go ahead in volume just as soon as owners are sure they can obtain value received. Building construction on railroad is becoming more active and certainly much is contemplated. Manufacturers seem to have had a good year and expansion seems to be still their desire.

W. F. Austin, W. E. Wood Company, Detroit—It would seem to us, from our very limited knowledge of the situation, that the safest plan would be to advocate that for the next six months, at least, the building construction be confined to those structures most urgently necessary. Doing this not with the idea that costs may be lowered after that period, but with the thought that unless something of this kind is done costs will again reach the point where a general let-up and uni-

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versal discontinuation of construction operations will be the result.

A. S. Downey, A. W. Quist Company, Seattle—Taking everything into consideration, it would seem a wise policy at this time to encourage building construction so that we may gradually bring our building program to meet the present demands.

Henry Ericsson, Henry Ericsson Company, Chicago—The after-effect of the war had a very peculiar influence on things in general. It seems to me that everybody is having more money and lives on a higher plane than before the war; this creates a demand for more new buildings than was required before the war. That is one of the reasons for the building rush in the past and it may be the reason for its continuance for another year or two.

S. B. Haux, The American Construction Co., Houston—It is my observation in this locality that further curtailment of building operations is essential to the good of the cause, due to the unprecedented demand of labor.

Otto M. Eidlitz, Mark Eidlitz & Son, New York—I believe that wages are probably fixed for the next two years and that the price of building materials will vary somewhat during the winter months.

The work that would normally come out to meet the still unsatisfied demand for housing and additional business accommodations as well as the starting up of the work that has been held up during this year, will make 1924 a big year in the building industry.

T. T. Flager, The Flager Company, Atlanta—This is a very general view. In particular we are interested in construction only in the South and throughout this territory it is my opinion that further building under present conditions will be profitable to the owners in something like 90 per cent. of the territory we cover, and this is the real criterion which should cover the volume of construction.

Archibald M. Woodruff, Third Vice President Prudential Insurance Company—At the present time we are having a very large demand for mortgage loans to be secured by complete structures, and we have recently declined a number of applications for construction loans. From the information we have received, it is my opinion that there will be an excessive demand for labor in connection with building construction work for several months at least, particularly in our larger cities.

H. C. Turner, Turner Construction Company, New York—As to business conditions in the future, most of the factors seem favorable for good business, but we have had a bad wheat situation, a disorganizing oil industry and uncertain legislative prospects.

Having in mind the great volume of work offered this past eight months, only a part of which could be built, it would seem foolish if the country did not give full employment to all competent workmen during the coming winter and the year 1924.

The President of a leading Engineering Society—I am glad that the construction program was curtailed some few months ago, and while I think that at this season it is not likely to run away, yet I believe that caution is necessary lest the program for the next year be made too ambitious and we start out at the beginning of the 1924 construction season with a bigger program than can be put over, with the consequent result that the precedents will be artificially boosted.

The Comptroller of a leading Life Insurance Company—As to the trend of construction activities, I do not see any likelihood that they will be dismissed. I think the country is still behind in its construction program as to buildings used for residence purposes and business buildings. I have no information on factories, as we do not lend on factory properties, but I think it is likely that it will be some time before the building program has reached the saturation point.

H. N. Leighton, H. N. Leighton Company, Minneapolis—As to the advisability of relaxing the curtailment of building operations advocated earlier in the year, it is our judgment that this should be done. This statement is based on the impression which has come to us especially during the past six months, during which time there has been a very pronounced decrease in the amount of work offered for figures, and if anything can be done to counteract this tendency it would seem to be highly advisable.

L. J. Horowitz, Thompson-Starrett Co., New York—I am of the opinion that conditions have been considerably improved, but that the time has not yet arrived when it can be said that the industry has been stabilized to a sufficient extent to make it prudent for an owner to embark upon a building operation to which he is not committed. There will, of course, be exceptions to this rule. There are some situations which will warrant an owner to proceed notwithstanding high costs, because his needs for space are so great as to overshadow the disadvantage of high costs.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residence**, West Upsal street and Jefferson street, Philadelphia. Architect, Edward A. Yeo, 225 South Sydenham street, Philadelphia. Owner, Louis G. Green, care of architect. Stone and brick, 2½ stories, irregular size, shingle roof, oak and pine floors (plumbing, heating, electric tile reserved). Revised plans in progress. Architect will take new bids in a few days.

**Garage**, 1611 North Wellington street, Philadelphia. Architect, E. A. Wightman, 1213 Filbert street, Philadelphia. Owners, Taltuval Brothers, care of architect. Brick, 1 story, electric light, slag roof, cement floors. Plans about completed. Architect will take bids in a few days.

**Residences and Garages (225), Stores**, Corinthian, Poplar, Parrish and Twenty-second streets, Philadelphia. Architect, private plans. Owner, George A. Nahm, 2736 West Girard avenue, Philadelphia. Brick, 2 stories, 17x35 feet, garages 8x10 feet, slag roof, oak and pine floors, hot water heat, electric light, tile. Plans in progress.

**Factory and Warehouse**, Spring Garden, North American and Green streets. Architects, Durness & Evans, 315 South Fifteenth street, Philadelphia. Owners, Valentine H. Smith & Co., 554 North Second street, Philadelphia. Reinforced concrete, 6 stories, 72x100 feet. Architect will take sub-bids.

**Auto Show Room (3) and Dance Hall**, West side of Forty-first street, 40 feet South of Walnut street, Philadelphia. Architect, F. P. Canavan, 7032 Greenway avenue, Philadelphia. Owner, A. Liebovitz, 4045 Baltimore avenue, Philadelphia. Brick, steel, terra cotta, 2 stories, 70x120 feet, slag roof, mineral and maple floors, electric light, steam heat, tile work. Owner is ready for sub-bids.

**Store and Factory (alts. and add.)**, 526 South Third street, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Finkelstein Brothers, 303 South street, Philadelphia. Brick, 3 stories, irregular size, steam heat, electric light, slag roof, pine floors, plumbing, rolled steel sash fire tower, wire glass. Owners ready for general bids.

**Service Station**, Walnut street, between Thirty-sixth and Thirty-seventh streets, Philadelphia. Architects, Hoffman & Henon, Inc.,

Finance Building, Philadelphia. Owners, W. Edwin Blair and William J. Meehan, 5954 Chestnut street. Hollow tile, brick and stucco, 1 story, 100x120 feet, slag roof, cement floors, steam heat, electric lighting, plate glass. Revised plans in progress for interior changes by the owner, who will be ready for bids in a few days.

**Residence**, East side Emlen street, North of Mt. Airy avenue, \$18,000. Architect, A. T. Smith, Otis Building, Philadelphia. Owner, G. H. English, Mt. Airy and Emlen streets, Philadelphia. Stone, 3 stories, 25x40 feet, and 1 story, 21x12 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Club House**, 1915 South Broad street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, Circolo Leonardo Da Vinci, on premises. Brick, 3 stories, 33x20 feet, hot water heat, electric light, plumbing, slag roof, hardwood floors. Plans about completed. Architect will take sub-bids in one week.

**Residence (alts. and add.), Residence (alts.) and Garage**, 1722-24 South Ninth street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, Nicholas Demetrio, 1740 South Ninth street, Philadelphia. New fronts, brick, 1 story, 15x16 feet, 12x16 feet, concrete and slag roof, pine and cement floors, underpinning, plate glass, metal work. Plans completed.

**Residence (alts. and add.)**, 533 Marlyn Road, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, Camelo Vitanza, on premises. Brick, 3 stories, 16x12 feet, slag roof, concrete floors, general alterations. Plans completed. Owner will build.

**Alterations**, 1708-14 Chestnut street, Philadelphia. Architect, private plans. Owners, Theo. Presser Co., on premises. Carpentry and mill work, tile and marble work, plastering, hardware, fire escapes, glazing. Owners taking bids due as soon as possible.

**Store and Residence**, 1526 South Tenth street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, Frank Montone, 939 Winton street, Philadelphia. Press brick, 2 stories, 17x43 feet, hot water heat, electric light, plumbing, slag

roof, pine and cement floors. Plans about completed. Owner will take sub-bids.

**Residence (alts. and add.)**, Southwest Corner Sixth and Bainbridge streets, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owners, Foglietta Estate, on premises. Brick, 2 stories, 13x16 feet. Revised plans in progress.

**Store and Residence**, 608-12 Bainbridge street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owners, Foglietta Estate, on premises. Brick, 3 stories, 18x32 feet, hot water heat, electric light, slag roof, pine floors. Revised plans in progress.

**Garages (54)**, rear Second and Ashdale streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, S. B. Shuben, care of Reliable Coal Co., on premises. Brick, 1 story, 103x135 feet irregular, slag roof, concrete floors, electric lighting, steam heat, galvanized iron partitions, iron columns. Architect taking bids due as soon as possible.

**Theatre**, Fifty-eighth and Beaumont avenue, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, limestone, 1 story, 32x75 feet, 81x133 feet, slag and gypsum roof concrete floors, metal lath, tile and marble work, hollow metal doors. Architects taking bids due October 29th.

**Lobby Partitions**, Broad Street Station, Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia. Hardware, steel, sheet metal work, carpentry and mill work. Architect taking bids due October 25th.

**Supplies**, School District of Philadelphia. Owners, Board of Education, Mahlon L. Savage, Superintendent of Supplies, Nineteenth above Chestnut street, Philadelphia. Furnishing bookcases, curtains, educational supplies, flags, metal signs, rugs, stationery, steel lockers, etc. Owners taking bids due November 8th, noon.

**Residences (34)**, Fifty-ninth and Turner streets, Philadelphia, \$172,000. Architect, private plans. Owners, R. D. & J. M. Wilson, 1530 South Fifty-seventh street, Philadelphia. Brick, 2 stories, 18x32 feet and 17x30 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Residences (49)**, Twelfth street, Camac and Grange streets, \$340,000. Architect, private plans. Owner, Daniel Crawford, Jr., 3904 Chestnut street, Philadelphia. Brick, 2 stories, 16x41 feet, 18x50 feet, 18x41 feet and 16x30 feet, 12x10 feet, slag roofs, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Street Railroad and Approaches (tunnel)**, Twenty-third street to Spring Garden Street Bridge, Philadelphia. Architects, Borie, Trumbauer & Zantlinger, 1406 Land Title Building, Philadelphia. Owners, Commission of

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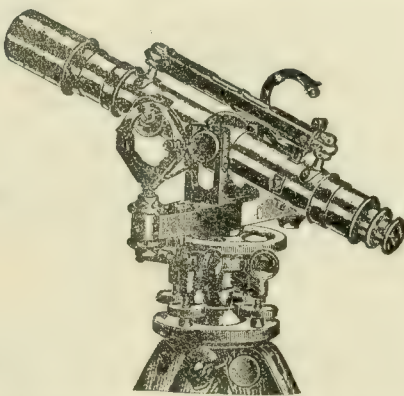
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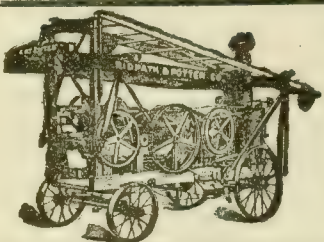
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Fairmount Park, Room 127, City Hall, Philadelphia. Reinforced concrete, structural steel, 29x59 feet, waterproofing, bond, ornamental iron work. Low bidders: O'Neill Const. Co., 127 East Mermaid Lane, Philadelphia, \$320,000; J. B. Kelly, 2315 Walnut street, Philadelphia, \$343,000.

**Residences (8)**, Greene and Carpenter streets, Philadelphia, \$62,000. Architect, private plans. Owner, D. Sokolow, 3130 Clifford street, Philadelphia. Brick, 2 stories, (1) 16x62 feet, (5) 15x34 feet, 12x24 feet, and (2) 15x31 feet, 11x12 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Owner will build.

**Residences (7)**, Pensdale and Merrick streets, Philadelphia, \$42,200. Architect, private plans. Owner, Max Meitner, 365 Green Lane, Philadelphia. Brick, 2 stories, 16x39 feet and (6) 16x29 feet, 13x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences and Garages (31), Stores (2)**, Fifty-ninth and Windsor Terrace, \$159,500. Architect, private plans. Owner, Harry Pepper, 523 Fernon street, Philadelphia. Brick, 2 stories, 18x43 feet and 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (10)**, Windsor Terrace, East of Sixty-fifth street, \$10,000 each. Also 10 **Garages**, \$500 each. Owners, Flynn & Mack, 5926 Spruce street, Philadelphia. Brick, 2 stories, 20x37 feet, slag roof, hardwood, pine and cement floors, hot air heat, electric light. Owners will build.

**Residences (8)**, South side Disston street, Algard to Walker, \$5,000 each. Architect, private plans. Owner, Daniel Gereke, 6938 Tulip street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence**, South side Gilham street, East of J street, \$5,000. Architect, private plans. Owner, Frank C. Adair, 6711 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Garage**, West side Lawrence street, South of Annsbury street, \$4,500. Architect, private plans. Owner, Emil P. Stahl, 5209 North Third street, Philadelphia. Brick, 1 story, 65½x35 feet, slag roof, cement floors. Owner will build.

**Residence and Store**, 4774 Richmond street, Philadelphia, \$5,000. Architect, private plans. Owner, Valentine Furtak, 2829 Jenks street, Philadelphia. Brick, 2 stories, 14x50 feet, slag roof, hot water heat, electric light. Owner will build.

**Residence**, Southwest Corner Tabor and Vincent street, \$5,000. Architect, private plans. Owner, G. Weber, on premises. Frame, 2 stories, 22x44 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (24)**, Hancock, Palethorp, Clearfield and Lippincott streets, \$4,500 each. Owners, Charles W. Irvin Co., 721 Walnut street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, hot water heating, electric lighting. Owners will build.

**Warehouse and Office**, East side Fifth street, South of Buttonwood, \$25,000. Architect, J. H. Hamilton, 420 Somerville avenue, Philadelphia. Owners, Donnelly & Co., 472

York avenue, Philadelphia. Brick, 2 stories, 80x48 feet, hot water heating, electric lighting. Owners will build.

**Residence (alts. and add.)**, 4940 North Broad street, Philadelphia, \$10,000. Architect, private plans. Owner, Harry C. Miller, 1328 Ruscomb street, Philadelphia. Brick, 3 stories add., 20x17 feet, general alterations. Owner will build.

**Residences (25)**, 1300-44 North Taney street and 2628 to 2632 Master street, Philadelphia, \$97,400. Architect, private plans. Owner, George A. Nahm, 2736 West Girard avenue, Philadelphia. Brick, 2 stories, 18x32 feet, 18x38 feet, 20x26 feet, 17x28 feet, 12x10 feet and 15x23 feet, 12x9 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (15)**, East side Flanders Road, Lebanon avenue to Oxford street, Philadelphia, \$6,000 each. Architect, private plans. Owner, John H. McClatchey, 848 Land Title Building, Philadelphia. Stone and brick, 2 stories, 16x33 feet, tile roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence**, North side Bleigh street, East of Whitaker street, \$5,500. Owner, August Salevsky, 1804 West Susquehanna avenue, Philadelphia. Frame, 2 stories, 22x22½ feet, hot air heating, electric lighting. Owner will build.

**Residences (2)**, West side Russel street, North of Bleigh, \$5,000. Architect, private plans. Owner, John H. Bauer, 4938 North Fairhill street, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (14)**, East side Algard street, North of Tyson, \$4,500 each. Architect, private plans. Owner, Walter Costello, 7004 Hegerman street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (3)**, East side Shelden street, North of Collom, \$4,000 each. Architect, private plans. Owner, Hugh A. Hamilton, Greene and Cheltenham avenue, Philadelphia. Brick, 2 stories, 24x19 feet, slag roof, pipeless heating, electric lighting. Owner will build.

**Residences (2)**, 3569-71 South Venango street, Philadelphia, \$3,000 each. Architect, private plans. Owner, Joseph McKinney, 3544 Janney street, Philadelphia. Brick, 2 stories, 14x36 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Warehouses (2)**, Milner and Bleigh streets, Philadelphia. Architect, private plans. Owners, L. Martin & Co., Milner and Cottman streets, Philadelphia. Concrete block, 1 and 2 stories, 150x80 feet, slag or asphalt roof, cement floors, electric light. Owner will build.

**Residence**, East side Glenlock street, South of Unruh street, \$4,000. Architect, private plans. Owner, O. H. Thompson, 6008 Marsden street, Philadelphia. Brick, 2 stories, 16x38 feet, hot air heat, electric light, slag roof. Owner will build.

**Residence**, 7907 Madison avenue, Philadelphia, \$4,000. Architect, private plans. Owner, Vin. Barletto, 7905 Madison avenue, Philadelphia. Brick, 2 stories, 16x40 feet, hot air heat, electric light, slag roof. Owner will build.

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Philadelphia, \$3,000. Architect, private plans. Owners, Welder Brothers, Southwest Corner Twelfth and Brown streets, Philadelphia. Brick, 1 story, 36x61 feet, slag roof, electric work. Owner will build.

**Residence (alts. and add.),** 5302 Chestnut street, \$2,700. Architect, private plans. Owner, Rose Keating, on premises. Brick, 2 stories, 16x7 feet, general alterations. Owner will build.

**Residence (add.),** 4213 Frankford avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Harry Snyder, on premises. Brick, 2 stories, restaurant add., 24x27 feet. Owner will build.

**Garage,** Southwest Corner Sixty-eighth and Paschall avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Thomas M. Cock-erill, 2242 St. James street, Philadelphia. Brick, 1 story, 34x81 feet, slag roof, cement floor. Owner will build.

**Residence,** North side Tinicum avenue, West of Eighty-fourth street, \$2,500. Architect, private plans. Owner, F. Bonta, 8421 Tinicum avenue, Philadelphia. Brick, 1 story, 16x46 feet, hot water heat, electric light. Owner will build.

**Garage,** 23-25 West Mt. Pleasant avenue, Philadelphia, \$2,200. Architect, private plans. Owner, Ambrose L. Hendricks, 23 West Mt. Pleasant avenue. Brick, 1 story, 60x18½ feet, slag roof, cement floors. Owner will build.

**Residences (2),** South side Lyons avenue, East of Eighty-fifth street, \$3,000 each. Architect, private plans. Owner, Michael J. McBride, 934 Snyder avenue, Philadelphia. Brick, 1 story, 16x33 feet, pine floors. Owner will build.

**Residence and Store (alts. and add.),** 1922 West Columbia avenue, \$3,000. Architect, private plans. Owner, George E. Hawk, 1628 North Twelfth street, Philadelphia. Brick, 1 story, 13x17 feet, general alterations. Owner will build.

**Residence and Store (alts.),** 8142-44 Germantown avenue, \$2,000. Architect, private plans. Owner, Robert H. Airvon, on premises. General alterations. Owner will build.

**Bakery (add.),** 343 Gross street, Philadelphia, \$2,000. Architect, private plans. Owner, A. Pinto, on premises. Brick, second story add., 25x25 feet. Owner will build.

**Residences (2),** East side Montague street, North of Tyson, \$5,000 each. Architect, private plans. Owner, H. Roy Whitaker, 6949 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence,** West side Mulberry street, South of Fillmore street, \$4,800. Architect, private plans. Owner, Charles H. Gaskill, 1740 Fillmore street, Philadelphia. Brick, 2 stories, 16x19 feet, 20x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Bridge,** under Chestnut Hill Branch of Philadelphia & Reading Railroad Company,

East of Germantown on line of proposed Cresheim Valley Drive, Philadelphia. Architect, private plans. Owners, Commissioners of Fairmount Park, Alan Corsan, C. E., 127 City Hall, Philadelphia. Labor, tools, material necessary for construction of skew arch, stone and concrete bridge. Low bidders, O'Neill Co., 127 E. Mermaid Lane, Philadelphia, \$62,781.97.

**Car Cleaners' and Car Inspectors' Building,** Camden Terminal, Camden. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. Co., Reading Terminal, Philadelphia. Reinforced concrete and brick, 1 story, 32x55 feet, asbestos roof, asphalt mastic floors, hollow tile electric light, rolled steel sash bond. Architect taking bids due November 1st.

**Heed-Scott Building,** 1215 Filbert street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, William Hyman, care of architect. Architect taking bids due October 24th.

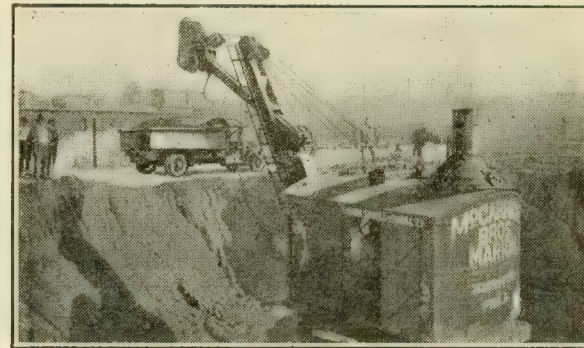
**Stores (2) (alts.),** 124 South Eighteenth street, Philadelphia. Architect, Edwin A. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Eddlestein & Bernstein, on premises. Architect taking bids due as soon as possible.

**Building,** 1508 Chestnut street, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Provident Trust Co., 409 Chestnut street, Philadelphia. General alterations. Plans in progress.

**Residence (2) (store alts.),** 2116-18 Walnut street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, J. A. Barry, Land Title Building, Philadelphia. Limestone, marble work, plate and leaded glass general alts. Plans about completed. Ready for bids in a few days.

### Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 9, 1923. Sealed Proposals will be received at this office until 3 P. M., November 6, 1923, and then opened for the construction of a two-story concrete and wood building for Doctors' and Pharmacists' Quarters at the U. S. Marine Hospital, Baltimore, Md., in accordance with the specifications and drawings mentioned therein, copies of which may be had at this office or at the office of the Custodian, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.



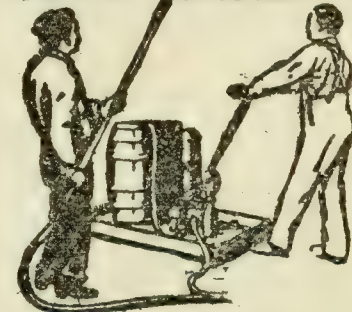
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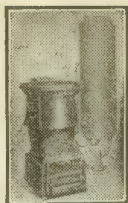
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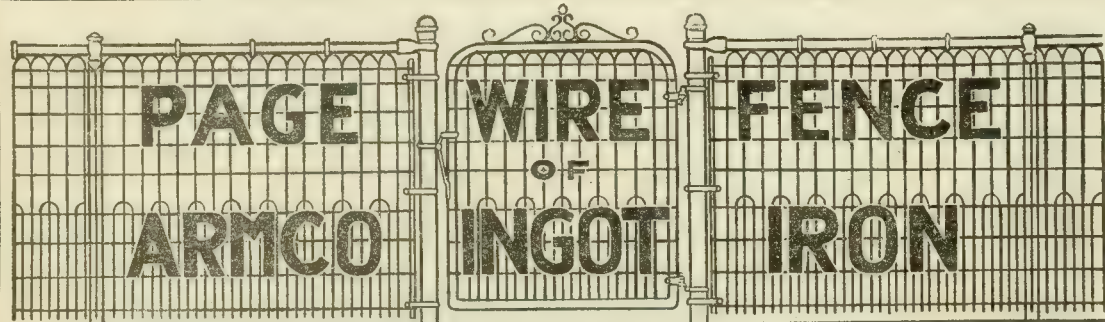
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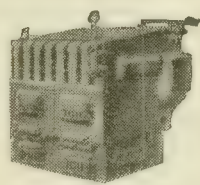
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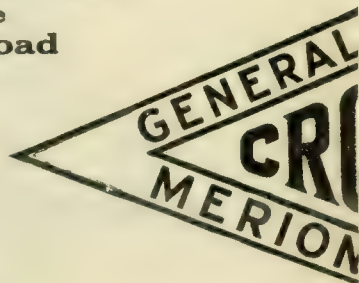
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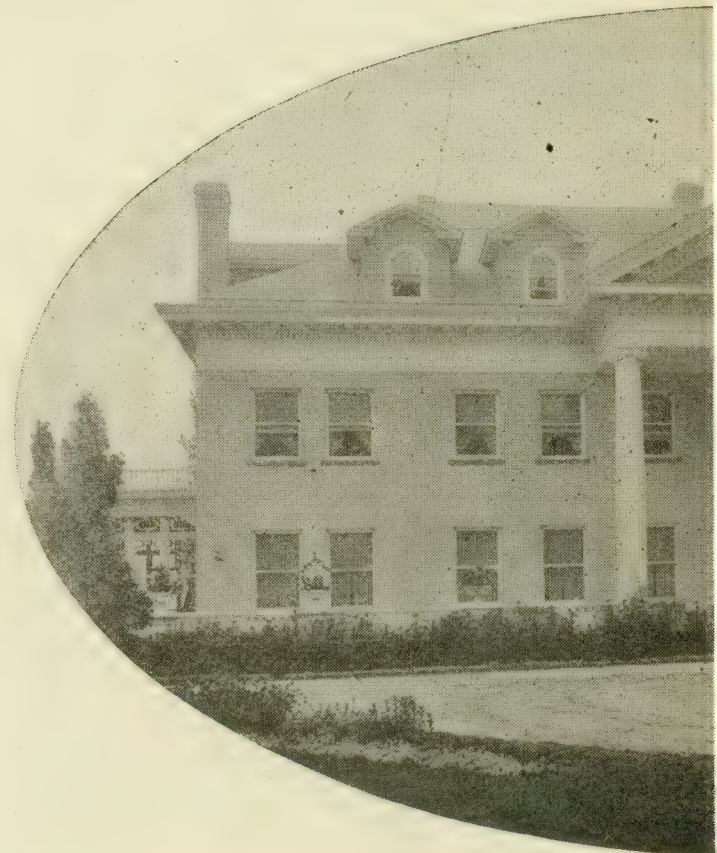
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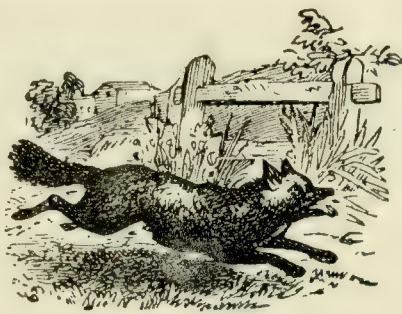
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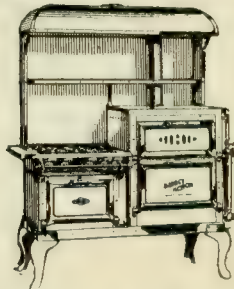
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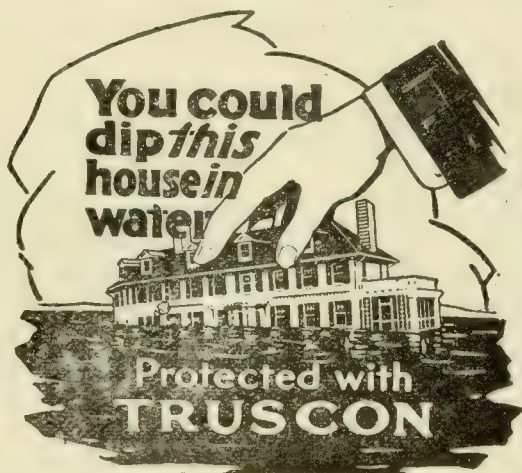
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## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Apartment (alts.),** 122 South Fifty-first street, Philadelphia, \$2,200. Architect, Paul Livingston Boyd, 6943 Limekiln Pike, Philadelphia. Owner, Mrs. E. Kasitz, 5415 Chancellor street, Philadelphia. Brick, 2 stories, reinforced concrete, enclosed porches, stair work, plumbing fixtures (heating, electric, tile, painting and plumbing separate bids). Contract awarded James Cunningham, 2021 South street, Philadelphia.

**Store (add. and alts.),** 239 South Fifty-second street, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Marcus Freido, on premises. Brick, 2 stories, 19x20 feet, hot water heat, electric light, tile work, electric elevators, composition floors, slag roof, plate glass, metal ceilings, copper bulks. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

**Garage,** 5440-42 Race street, Philadelphia, \$12,000. Architect, J. W. Myers, 1807 Chestnut street, Philadelphia. Owner, J. N. Abbott, 5438 Race street, Philadelphia. Brick, 1 story, 30x58 feet, 50x98 feet, slag roof, cement floors. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

**Service Station,** Northeast Corner Wissahickon and Hunting Park avenue, \$8,000. Architect, private plans. Owners, Crew Levick Co., 219 North Broad street, Philadelphia. Brick, 1 story, 16½x12 feet, slag roof, cement floors. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street.

**Residences (5),** Northwest Corner Reese and Blavis streets, \$4,500 each. Architect, private plans. Owner, Elizabeth M. Stemmel, Fifty-fourth and Berks streets, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, hot water heat, electric light. Contract awarded to F. V. Shubert, 4011 North Marshall street, Philadelphia.

**Distillery,** Northwest Corner Swanson street and Snyder avenue, \$2,500. Owners, Publicker Commercial Alcohol Co., on premises. Concrete piles. Contract awarded to the Gow Co., 1422 Locust street, Philadelphia.

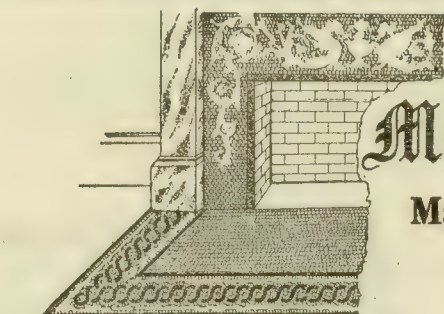
**Residence (add.),** 6907 Boyer street, Philadelphia, \$2,400. Architect, private plans. Owner, John Williams, Jr., on premises. Concrete and frame porch, 1 story, 17x24 feet. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

**Bank Building,** Logan Branch, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Chelton Trust Co., Germantown and Chelton avenues, Philadelphia. Brick and cut stone, 2 stories and basement, 71x33 feet, limestone, steel, steam heat, electric light, metal lath, marble and terrazzo work, bond, terra cotta, cement, pine and linoleum floors, Carey roof, bank screens and partitions. Contract awarded to W. J. Gruhler, 219 High street, Philadelphia.

**Store (alts.),** 631 Market street, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, Harry Koff, on premises. Carpentry and mill work, hardware, plastering, metal ceiling, painting and glazing, tile and marble work, electric work, plumbing, heating alterations. Contract awarded George H. Evans, 105 North Thirteenth street, Philadelphia.

**Building (alts.),** 823-25 Filbert street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Strawbridge & Clothier, Eighth and Market streets, Philadelphia. Strengthening floors. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

**Store and Apartment (alts. and add.),** 1511 Foulkrod street, Philadelphia. Architect, E. Schoeppe, 315 South Fifteenth street, Philadelphia. Owner, G. Thiele, care of architect. Brick, cut stone, composition floors, structural steel, metal ceilings, painting and glaz-



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ing, carpentry and mill work, oak floors, hardware, marble work, slag roof. Contract awarded J. D. Fotheringham, Castor and Arrott streets, Philadelphia.

**Office (alts. and add.),** Second and Indiana avenue, Philadelphia, \$8,000. Architect, private plans. Owners, Scholes & Son, on premises. Structural steel, mill work, plumbing, steel sash, brick work, painting and glazing. Contract awarded A. Dunlap, 7223 Oak avenue, Oak Lane, who is taking sub-bids.

**Church and Sunday School and Auditorium,** Holmesburg, Pa. Architects, R. R. Neely & E. William Martin, 2301 Spruce street, Philadelphia. Owners, Mt. Zion Baptist Church, Holmesburg. Brick, 1 story, 92x40 feet, slate roof, pine floors, steam heat, electric. Contract awarded Craftsman Building Co., Holmesburg, Pa.

**Store and Residence (alts. and add.),** 3848 Frankford avenue, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, S. Glickman, on premises. Brick, 3 stories, electric light, pine floors, carpentry and mill work. Contract awarded D. Nicolaitti, 1260 Adams avenue, Philadelphia.

**Apartment House (alts. and add.),** 1732-36 Christian street, \$22,000. Architect, C. Henry Wilson, 2nd, 2028 Berks street, Philadelphia. Owners, American Realty & Investment Co., 1330 Lombard street. Brick, 3 stories, 34x44 feet, slag roof, hot water heating, electric lighting. Contract awarded to W. J. Chase, Ashton Road, Holmesburg, Philadelphia.

**Garage,** North side Ludlow street, West of Twentieth street, Philadelphia, \$10,000. Architect, private plans. Owners, Gimbel Brothers, Ninth and Market streets, Philadelphia. Brick, 1 story, 195x60 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to Curtis-Grindrod Co., 10 South Eighteenth street, Philadelphia.

**Garage,** 5735-37 Wayne avenue, Philadelphia, \$35,000. Architect, W. K. Henkels, 106 West Highland avenue, Philadelphia. Owner, Charles W. Kaiser, 20 Armat street, Philadelphia. Brick, 1 story, 60x175 feet, slag roof, cement floors. Contract awarded to Joseph T. Phister, 1724 Market street, Philadelphia.

**Building (alts.),** East side Coral street, North of Willard, \$5,000. Engineers, Woodfield-Thompson Co., Otis Building, Philadelphia. Owners, C. H. Masland & Sons, on premises. Carpentry, mill work, plastering, electric work, plumbing. Contract awarded

to Turnbull & Cornell, 15 South Twenty-first street.

**Stores and Apartments,** Fifty-second and Locust streets, Philadelphia, \$4,000. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, W. Osmon, care of architect. Brick, 2 stories and basement, 15x85 feet, general alterations. Contract awarded Bragin & Brothers, 4253 Ogden street, Philadelphia.

**Boosting Station,** Germantown and Graver's Lane, Chestnut Hill, \$4,000. Architect, J. P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Contract awarded Cramp & Co., Denckla Building, Philadelphia.

**Residences (2),** South side Robbins street, West of Hasbrook street, \$6,500 each. Architect, private plans. Owner, Nellie T. Patton, 701 Levick street, Philadelphia. Frame, 2 stories, 16x32 feet, asbestos roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Earl F. Tygert, 728 Robbins avenue, Philadelphia.

**Schools (2),** Fourth and Lehigh avenue and Sixty-second and Greenway avenue, \$18,550. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. General alterations. Contract awarded to John W. McHugh, 34 South Seventeenth street, Philadelphia.

**Church,** East side Eighty-third street, South of Tinicum avenue, \$15,000. Architect, private plans. Owners, Beulah Baptist Church, on premises. Stone, 1 story, 34x70 feet, slate roof, steam heat, electric light. Contract awarded to S. Jones, 2118 South Seventy-first street, Philadelphia.

**Residence,** South side County Line Road, West of Bustleton avenue, \$10,500. Architect, private plans. Owner, Thomas J. Fullam, Castor Road and Rhaun street, Philadelphia. Hollow tile, 2 stories, 36x25 feet, asbestos shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to A. J. Sickel, Trevoise, Pa.

**Garage (alts.),** Northeast Corner Twenty-fourth and Wood streets, Philadelphia, \$10,000. Architect, private plans. Owners, Parkway Realty Co., on premises. Carpentry, mill work, concrete work, brick work, general alterations. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

**Residence,** West side Kelvin avenue, South of Herschel Road, \$7,000. Architect, private plans. Owner, Earl McConnell, Somerton, Philadelphia. Frame, 2 stories, 28x26 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Cecil Hodgins, 4610 D street, Philadelphia.

**Garage,** South side Haworth street, West of Dittman street, \$6,000. Architect, private

plans. Owner, Harry T. F. Shaw, 4640 Tackawanna street, Philadelphia. Brick, 1 story, 72x35 feet, slag roof, cement floors. Contract awarded to George R. Osborne & Son, 5014 Saul street.

**Store and Apartment (alts. and add.),** 4048-50 Walnut street, \$5,800. Architect, private plans. Owner, Ann S. Ayres, on premises. Brick, 1 story add., 44 feet, 9 inches x 19 feet, general alterations. Contract awarded to John H. Hutt, 5919 Spruce street, Philadelphia.

**Store and Residence (add. and alts.),** 1834 Columbia avenue, \$8,000. Architect, private plans. Owner, James G. Kelian, on premises. Brick, 1 story, rear add., 12x18 feet, 1 story, side add., 3x21 feet, general alterations. Contract awarded to Harry Dovoltian, 5948 Walnut street, Philadelphia.

**Store and Residence (add.),** 2600 Frankford avenue, \$4,000. Architect, private plans. Owner, I. Goldman, on premises. Brick, 2 stories, 14x11 feet. Contract awarded to J. Landan, 1806 North Seventh street, Philadelphia.

**Greenhouse,** 405 Tabor Road, Philadelphia, \$4,000. Architect, private plans. Owner, John Kuhn, on premises. Brick, steel, glass, 1 story, 12x106 feet. Contract awarded to King Const. Co., North Tonowanda, N. Y.

**Residence (alts. and add.),** 675 North Eleventh street, Philadelphia, \$5,500. Architect, private plans. Owner, Joseph Leib, 1140 Mt. Vernon street, Philadelphia. Brick, 1 story add., 12x9 feet, general alterations. Contract awarded to S. Lazarus, 4914 Parkside avenue, Philadelphia.

**Residence,** West side Bingham street, South of Dungan Road, \$5,000. Architect, private plans. Owner, John Binder, 2823 North Twentieth street, Philadelphia. Frame, 2 stories, 25½x27½ feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to J. Urbaner, 2823 North Twentieth street, Philadelphia.

**Office and Shop (alts.),** 922 Locust street, \$5,000. Architect, private plans. Owners, Theo. Leonhardt & Sons, 125 South Fifth street, Philadelphia. Brick elevator shaft. Contract awarded to Schaeffer & Co., Otis Building, Philadelphia.

**Manufacturing Building (add.),** Northwest Corner Tioga and Memphis, \$4,800. Architect, private plans. Owners, Treen Box Co., on premises. Brick, 2 stories add., 20x86x3 feet. Contract awarded to Stewart Brothers Co., 2526 North Orkney street.

**Garage,** 6100 Sprague street, Philadelphia, \$4,500. Architect, private plans. Owners, Philadelphia Brewing Co., Sixth and Clearfield streets, Philadelphia. Brick, 1 story,

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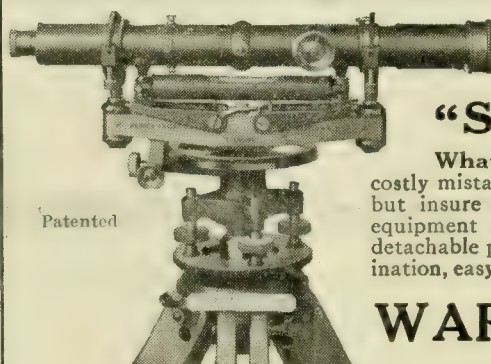
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irregular size, slag roof, cement floors. Contract awarded to John Engel, Sixth and Westmoreland streets, Philadelphia.

**Residence and Store (alts. and add.),** Southeast Corner Sixtieth and Osage avenue, \$5,460. Architect, Alvin C. Breber, Otis

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Building, Philadelphia. Owner, Rebecca Russoff, on premises. Brick, 2 stories add., 16x21 feet, general alterations. Contract awarded to J. P. Collins, 5632 Walnut street, Philadelphia.

**Garage,** 4930 Penn street, Philadelphia, \$4,000. Architect, private plans. Owner, Atley Buckman, 4930 Penn street, Philadelphia. Brick, 1 story, 67x19½ feet, slag roof, cement floors. Contract awarded to Rush Brothers, 1006 Harrison street, Philadelphia.

**Residence (alts.),** Northeast Corner Wissahickon avenue and Stafford street, \$4,000. Architect, private plans. Owner, Frederic L. Clark, 419 School Lane, Philadelphia. General alterations. Contract awarded to Samuel Harting & Son, 20 East Johnson street.

**Garage,** East side Osceola street, South of Haines street, Philadelphia, \$3,800. Architect, private plans. Owner, Louis Spagnols, 302 East Haines street, Philadelphia. Brick, 1 story, 26x57 feet, slag roof, cement floors. Contract awarded to V. Belmaler, 204 East Haines street, Philadelphia.

**Garage,** Northwest Corner Penn and Ruan streets, Philadelphia, \$3,000. Architect, private plans. Owner, H. Donohue, 4269 Penn street, Philadelphia. Brick, 1 story, 18x90 feet, slag roof, cement floors. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Garage,** 1812 Wylie street, Philadelphia, \$3,000. Architect, private plans. Owner, Harry Gercke, 801 Beechwood street, Philadelphia. Brick, 1 story, 20x89 feet, slag roof, cement floors. Contract awarded to O. D. Perrault, 3145 Diamond street, Philadelphia.

**Store and Residence (alts. and add.),** 3416 Walnut street, \$2,700. Architect, private plans. Owner, Samuel Goldman, on premises. Brick, 2 stories add., 17½x10½ feet, general alterations. Contract awarded to P. A. Sorenson, 1183 Callowhill street, Philadelphia.

**Garage,** rear of 2246 Bridge street, Philadelphia, \$2,000. Architect, private plans. Owner, Louis Elvin, on premises. Iron, 1 story, 16x48 feet, cement floors. Contract awarded to Louis Ulmer, 2324 Wakeling street, Philadelphia.

**Garage,** South side Gatzmer street, West of Wissinoming, \$2,000. Architect, private plans. Owner, Rosano Vizza, 3919 Disston street, Philadelphia. Stone, 1 story, 40x18 feet, cement floors. Contract awarded to Daniel Goldi, 8068 Erdriek street, Philadelphia.

**Store and Residence (add.),** Northeast Corner Fifteenth and Loudon streets, \$3,000. Architect, private plans. Owner, H. Liberman, Colonial Trust Building, Philadelphia. Brick, 2 stories, slag roof, hardwood floors, 14x16 feet. Contract awarded to Samuel Waxman, 2427 North Seventeenth street, Philadelphia.

**Business Building (add.),** Northwest Corner Twenty-fourth and Christian, \$2,680. Architect, private plans. Owner, A. J. Lynch, on premises. Brick, 1 story add., 16x16 feet, slag roof, electric work. Contract awarded to Jacob Sklar, 1613 North Thirteenth street, Philadelphia.

**Garage,** Southeast Corner Meadowbrook avenue and Stroud street, \$2,500. Architect, private plans. Owner, L. B. Schofield, West

End Trust Building, Philadelphia. Stone, 1 story, 20x28 feet, asbestos shingle roof, cement floor. Contract awarded to R. C. Borthwick, 6511 Woodstock street, Philadelphia.

**Residence and Store (add. and alts.),** 2603 East Allegheny avenue, \$2,400. Architect, private plans. Owner, M. Zagosski, 2609 East Allegheny avenue, Philadelphia. Brick, 2 stories, 11x14 feet, general alterations. Contract awarded to S. Pietrykowski, 3074 Aramingo avenue.

**Garage,** 516 South Fifty-seventh street, Philadelphia, \$2,000. Architect, private plans. Owner, S. Goldberg, on premises. Brick, 1 story, 16x16 feet, concrete roof and floors. Contract awarded to Alex. Laib, 812 West Wyoming avenue, Philadelphia.

**Garage,** South side Courtland street, East of A street, \$2,500. Architect, private plans. Owner, Mrs. K. Seibold, on premises. Brick, 1 story, 18x80 feet, slag roof, cement floors. Contract awarded to J. Adams 234 East Courtland street, Philadelphia.

**Store (alts.),** Northeast Corner Eleventh and Walnut streets, Philadelphia, \$2,500. Architect, private plans. Owner, M. O. Levy, 215 South Fifteenth street, Philadelphia. New front. Contract awarded to Benj. Bornstein, Belfield and Wingohocking streets.

**Residence and Store (add.),** 421 West Girard avenue, \$2,200. Architect, private plans. Owner, H. Weiner, Atlantic City, N. J. Brick, 2 stories, 16x12 feet, slag roof, pine floors. Contract awarded to Joseph Sweet, 2549 North Spangler street, Philadelphia.

**Business Building (add.),** 406 South Sixth street, Philadelphia, \$2,200. Architect, private plans. Owner, Harry Berman, 3301 Germantown avenue, Philadelphia. Brick, 2 stories, 16x20 feet, slag roof, pine floors. Contract awarded to Neiman Const. Co., 460 Winona street, Germantown.

**Store and Residence (add.),** 2501 West Lehigh avenue, \$2,000. Architect, private plans. Owner, Chris. Schilling, on premises. Brick, 2 stories, 12x15 feet. Contract awarded to William Cole, 2720 West Lehigh avenue, Philadelphia.

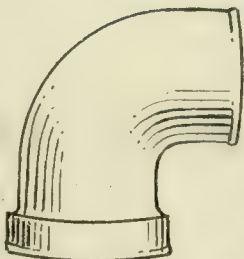
**Workshop,** 830 Fernon street, Philadelphia, \$2,900. Architect, private plans. Owner, W. Levitt, 808 South Sixth street, Philadelphia. Brick, 2 stories, 16x47 feet, pine floors, electric work. Contract awarded to H. M. Shandles, 617 Pine street, Philadelphia.

**Store and Residence (add.),** 2010 East Cheltenham avenue, \$2,800. Architect, private plans. Owner, William Muller, Pelham Club, Elm and Carpenter streets, Philadelphia. Brick, 1 story add., 16x14 feet, slag roof, electric lighting. Contract awarded to S. S. Billingsley, 1230 East Cheltenham avenue.

**Stores (3),** West side Forty-ninth street, South of Baltimore avenue, \$1,900 each. Architect, private plans. Owner, H. Boom, Forty-ninth and Baltimore avenue, Philadelphia. Brick, 1 story, 12x36 feet, slag roof, pine floors, electric light. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

**Residence and Store (alts. and add.),** 3705 Woodland avenue, \$2,500. Architect, private plans. Owner, Antonio Vitali, 3705 Woodland

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avenue, Philadelphia. Brick, 1 story, 9x32 feet, general alterations. Contract awarded to James Phillips, 723 Spruce street, Philadelphia.

**Shop (add.),** South side Spring Garden street, West of Tenth, \$2,500. Architect, private plans. Owners, Union Transfer Co., on premises. Brick, 1 story, 20x60 feet. Contract awarded to E. E. Hollenback Co., 1804 Brandywine street.

**Store and Residence (add. and alts.),** 5716 Chester avenue, \$2,500. Owner, M. Hoffman, on premises. Brick, 1 story, 16x14 feet, general alterations. Contract awarded to George Adams, 5905 Chester avenue, Philadelphia.

**Garage,** 3118 Richmond avenue, Philadelphia, 2,500. Architect, private plans. Owner, D. Cesarski, 3118 Richmond street, Philadelphia. Brick, 2 stories, 20x21 feet, slag roof, cement floors. Contract awarded to John Matraszek, 3163 Edgemont street.

**Store (alts. and add.),** 3109 York street, Philadelphia, \$2,500. Owner, Samuel Salor, 38 South Water street, Philadelphia. Brick, 1 story, 15x8 feet, general alterations. Contract awarded to Edward Holland, 5005 Sansom street, Philadelphia.

## Pennsylvania Construction News

**Twin Residences and Garage,** North Wales, Pa. Architect, Charles M. Talley, Telford, Pa. Owner, C. W. Patterson, North Wales, Philadelphia. Face brick, 2 stories, 44x32 feet, 1 story, 20x20 feet each, copper shingle and slag roof, hardwood and cement floors, electric light, hot water heat, tile work. Plans in progress.

**School,** Springhouse, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Lower Gwynedd Township School Board, F. S. Margal, secretary, Springhouse, Pa. Brick, 1 story, electric light. Working plans in progress.

**Residence,** Villanova, Pa., \$100,000. Architect, Delano & Aldrich, 126 East Thirty-eighth street, New York. Owner, John M. Taylor, 101 Llanfair Road, Ardmore, Pa. Brick, stone. Details undecided. Plans in progress.

**Residence (alts. and add.),** Pottsville, Pa. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Robert Braum, Pottsville, Pa. General alterations. Plans in progress.

**Church (alts.) and Sunday School,** Columbia, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Lutheran Church, Rev. Mehrkan, Columbia, Pa. Brick, 1 story and basement. Architects selected.

**New Church Front and Parish House,** Easton, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Paul's Lutheran Church, Rev. W. P. Reumann, 618 Berwick street, Easton, Pa. Brick, 2 stories. Architects selected.

**Bungalow,** Beechwood, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, James Mulholland, Sixty-first and Vine streets, Philadelphia. Cement block, 1½ stories, 26x49 feet, hot air heat, electric light, shingle roof, pine floors, brick fireplace, cement work. Plans completed. Owner ready for bids in a few days.

**Bank (alts. and add.),** Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Ardmore National Bank, Ardmore, Pa. Brick, steel and limestone, 1 story, 40x40 feet, slag roof, tile and marble work, hollow metal skylights, vault, cement work, prism glass, iron work and grills, ornamental plaster. Plans in progress.

**Garage and Show Room,** Lancaster avenue, Haverford, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Len Zengel, Haverford, Pa. Brick and steel, 2 stories, 99x132 feet, asbestos built-up roof, reinforced cement and composition floors, hot water heat, electric light, tile work, steel rolling doors, metal bulks. Plans in progress.

**Stores and Apartments (3),** Rosemont, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, J. Supplee, Rosemont, Pa. Brick, 2 stories, 28x68 feet, hot water heat, electric light, tile work, metal bulks, slag roof, hardwood floors. Plans in progress.

**Residences (6),** Haverford, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Concrete block and stucco, 2½ stories, 20x32 feet, hot water heat, electric light, tile work, shingle roof, hardwood floors. Plans in progress.

**Residences (6),** Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, name withheld. Brick, hollow tile and stucco, 2½ stories, 20x40 feet, hot water heat, electric light, tile work, shingle and tile roof, hardwood floors. Plans in progress.

**Residence,** Ardmore, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owner, Ralph H. Knodel, Land Title Building, Philadelphia. Architects taking bids due October 29th.

**Show Rooms, Stores and Repair Shop,** Ninth and Welsh streets, Chester, Pa. Architect, F. P. Canavan, 7032 Greenway avenue, Philadelphia. Owner, A. Liebovitz, 4045 Baltimore avenue, Philadelphia. Brick, steel and terra cotta, 2 stories, 118x226 feet, steam heat, electric light, slag roof, mineral and pine floors, rolled steel sash. Owner ready for sub-bids in three weeks.

**Residence,** Ardmore, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, William Kitzmiller, care of architect. Brick and stone, 2½ stories, 82x66 feet (plumbing, heating and electric light reserved), shingle roof, oak and pine floors, iron work. Revised plans in progress. Architect ready for bids in one week.

**Residence,** Drexel Hill, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, Freemont & Co., North American Building, Philadelphia. Frame and stucco, 2½ stories, 27x23 feet, shingle roof, hardwood floors, electric light, hot water heat. Owner will build.

**Factory and Garage,** Elizabethtown, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, Leibovitz Company, care of C. E. Ingle, Elizabethtown, Pa. Frame, 1 story, 54x30 feet and 20x24 feet, composition roof, pine and concrete floors, electric light. Owner taking bids.

**Store and Apartment (3),** Spring avenue and Simpson avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Dominic Di Natalie, on premises. Brick and steel, 2 stories, 50x60 feet, hot water heat, electric light, slag roof, patent floors, trism glass, kitchenette equipment, metal ceilings, metal bulks. Owner ready for sub-bids.

**Junior High School,** Lancaster, Pa. Architect, C. Emlen Urban, Lancaster, Pa. Own-

ers, Lancaster City School District, Lancaster, Pa. Cast stone, granite, steel, limestone, concrete and brick, 3 stories, 211x149 feet (heating, ventilating, electric and plumbing reserved), Barrett's specification roof, cement and maple floors, metal lath, tile and marble work, bond, floor hardener, iron work and stairs, terra cotta, waterproofing. Owner taking bids due October 30th.

**School (high),** Palmerton, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Palmerton School Board, R. B. Rosenberry, Palmerton, Pa. Brick, stone and cast stone, 3 stories and basement, 186x165 feet, slag roof, pine floors, steam heat, electric light, tile and marble work. Owners taking bids due November 1st.

**Residence and Garage,** Greystone Road, Merion, Montgomery County, Pa. Architects, Alfred Green and Byron H. Edwards, 34 South Seventeenth street, Philadelphia. Owner, Walter F. Off, care of architect. Stone, cut stone, brick, 2½ stories and 1½ stories, 34x22 feet; residence, 62x29 feet, wing 23x19 feet, slate roof, cement, oak, pine and composition, bond, iron work, metal lath tile work. Architects taking bids due October 27th.

**Rectory,** Ringtown, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Rev. P. J. Dougherty, Ringtown, Pa. Frame, 3 stories, 41x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due October 26th.

**Completion of South Office Building,** Harrisburg, Pa. Architect, Arnold W. Brunner, 101 Park avenue, New York. Owners, State of Pennsylvania, Department of Property and Supplies, Berkoy H. Boyd, secretary, Harrisburg, Pa. Heating, ventilating, refrigerating systems, bronze revolving doors. Owners taking bids due November 15th at 11 A. M.

**Bridge,** No. 49, State Road, Media to Marple, Springfield Township, Delaware County, Pa. Engineer, R. J. Aydlotte, County Engineer, Media, Pa. Owners, Commissioners of Delaware County, Media, Pa. Iron, reinforced concrete, 6 spans, 540x34 feet. Low bidder: F. J. Boas, 201 North Broad street, Philadelphia, \$115,000; Seeds & Durham, 6314 Wissahickon avenue, Philadelphia, \$117,000.

## Pennsylvania Contracts Awarded

**Engine Yard,** Rutherford, Pa. Architect, Samuel T. Wagoner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railroad Company, Reading Terminal Building, Philadelphia. Engine yard, coaling station, sand house, machinery and equipment. Contract awarded Thomas W. Hunt & Co., care of Philadelphia & Reading R. R. Co. Ash pit, foundation for crane run, inspection pit, water columns, grading and water supply and drainage. Contract awarded Fish, Bower, Rutherford, Real Estate Trust Building, Philadelphia. Structural steel for crane runways. Contract awarded Belmont Iron

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Works, Twenty-second and Washington avenue, Philadelphia.

**Factory**, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, J. N. Caruso, 45 West Lancaster avenue, Philadelphia. Penn Building Block, steel, 2 stories, 32x80 feet, asbestos built-up roof, concrete and pine floors, hot water heat, electric light, elevators, reptic tanks, motors, hollow metal sash, fire doors. Contract awarded Merion Cont. Co., 2315 Walnut street.

**Residences (2)**, Bryn Mawr, Pa. Architects, Thomas, Martin & Kirkpatrick, Otis Building, Philadelphia. Owners, Joseph Carson and Mrs. W. Rudolph Smith, 1524 Chestnut street. Stone, 2½ stories, 70x80 feet and 39x38 feet, slate roof, oak and pine floors, hot water heating, electric light, metal lath, tile work, iron work. Contract awarded to Herbert G. Campion, Otis Building, Philadelphia.

**Parochial School and Auditorium**, Nineteenth and Providence avenue, Chester, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Robert's Roman Catholic Church, care of Rev. R. J. Thompson, Chester. Stone, 3 stories, 65x160 feet, will contain 16 class rooms and gym; auditorium, 1 story, 40x117 feet, slate roof, steam heat, electric light. Contract awarded M. Melody & Son, 1322 Race street, Philadelphia.

**Residence and Garage**, Sellersville, Pa. Architect, Charles M. Talley, Telford, Pa. Owner, E. W. Simkins, Sellersville, Pa. Brick, 2½ stories, 30x40 feet, 1 story, 20x20 feet, vapor heat, electric lighting, tile and marble work, cement work, hardwood floors, slate roof. Contract awarded Stoneback & Morris, Perkasio, Pa.

**Residences (2)**, Pottsville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Lilly, Paul & Mark, care of architect. Hollow tile and stucco, 2½ stories, 40x40 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Charles Quandt, Minersville, Pa.

**Residence and Garage**, Elkins Park, Pa. Architects, Andrew J. Sauer Co., Denckla Building, Philadelphia. Owners, Mr. and Mrs. Morris Kauffman, care of architect. Cut stone, stone and steel, 2½ stories, 74x50 feet, garage, 25x25 feet, slate roof, hot water heat, electric light, metal lath, tile and marble work, weather strips, iron work. Contract awarded J. Sims Wilson, 1125 Brown street, Philadelphia.

**Residence and Garage**, Elkins Park, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, B. Springthorpe, Wakefield and Feymour streets, Germantown, Philadelphia. Stone and stucco, 2½ stories, 68x41 feet, 1 story, 20x24 feet, hot water heat, electric light, tile work, hardwood and cement floors, slate roof. Contract awarded S. W. Chapman, 126 North Felton street, Philadelphia.

**School**, Trainer, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Sinclair Oil Co., New York City. Brick, cut stone, limestone, steel, 3 stories, 76x61 feet, steam heat, electric light, metal lath, tile work, composition roof, maple floors. Contractor taking sub-bids due October 25th. Contract awarded to Chester Cont. & Const. Co., Chester, Pa.

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa. Crawford County, Route 83, Conneaut Lake Borough, Sadsbury, Summitt and Pine Townships, 29,027 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. \$252,936.39. Contract awarded to H. E. Bunce, Linesville, Pa.

## New Jersey Construction News

**Shelter Shed and Waiting Room**, Concourse Waiting Room, Trenton. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Steel and wood, 300x30 feet, slag roof, pine floors, electric. McNichol Paving Co., 1923 Cherry street, Philadelphia, will build and are taking sub-bids.

**Residences (2)**, Trenton, N. J., \$6,000. Architect, private plans. Owner, Mathias Mahler, 16 West street, Trenton, N. J. Brick, 2 stories, 14x30 feet, 12x14 feet, slate roof, pine floors, electric lighting. Owner will build.

**Residences (2)**, Cleveland avenue, Trenton, N. J., \$6,000. Architect, private plans. Owner, Richard Burgess, 346 Cleveland avenue, Trenton, N. J. Brick, 2½ stories, 43x13 feet, slate and tin roof, pine floors, hot air heat, electric light. Owner will build.

**Residences (4)**, Trenton, N. J., \$16,000. Architect, private plans. Owners, Home Development Co., Forst Richey Building, Trenton. Brick, 2½ stories, 14x40 feet, slate roof, pine floors, hot air heat, electric light. Owners will build.

**Y. W. C. A. Building**, Hanover street, Trenton, N. J. Associate architect, William Thompson, 342 Madison avenue, New York, and J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Y. W. C. A., Mrs. Edward Dunham, 365 West State street, Trenton, N. J. All bids rejected. Will readvertise.

## New Jersey Contracts Awarded

**Cottage and Garage**, Cape May, N. J. Architects, Zantinger, Borie & Medary, Otis Building, Philadelphia. Owner, name withheld. Frame, 2½ stories, 30x30 feet, 1 story, 18x20 feet, shingle roof, hot water heat, electric lighting, tile work, hardwood and cement floors. Contract awarded W. L. Cummings & Son Cape May, N. J.

**Garage**, 310 Mulberry street, Trenton, N. J., \$6,300. Architect, private plans. Owner, Yara Yago, 310 Mulberry street, Trenton, N. J. Concrete block and brick, 1 story, 37x124 feet, slag roof, concrete floors, electric lighting. Contract awarded to J. H. Faber, 24 Victory street, Trenton.

**Store and Apartment**, Trenton, N. J., \$6,000. Architect, private plans. Owner, Joseph Midira, care of builder. Frame, cement block, 1 story, 20x35 feet, 15x15 feet, slag roof, pine floors, electric lighting. Contract awarded to Alex. Majewski, 1409 Princeton street, Trenton, N. J.

## Delaware Construction News

**Road Work**, Delaware. Owners, Delaware State Highway Department, Dover, Del. Contract No. CK-17, through Frederica, 0.518 miles. Lowest bidder, Juniata Co., Empire Building, Philadelphia, \$19,294.

**Temporary Timber Bridge**, Seaford, Del. Owners, Delaware State Highway Department, Dover, Del. Contract No. 42-A. Lowest bidder, Field, Barker & Underwood, Commercial Trust Building, Philadelphia, \$4,700.

The BUILDERS' GUIDE is in its thirty-eighth year of continuous publication.

## Delaware Contracts Awarded

**Residences (3)**, West Twenty-eighth street, Wilmington, Del., \$14,700. Architect, private plans. Owner, H. S. Baynard, Twentieth and Van Buren streets, Wilmington, Del. Brick, cinder block, 2 stories, 24x28 feet, slag roof, hot air heat. Contract awarded to Heindle & Samworth, 1600 West Fourteenth street, Wilmington, Del.

**Garage (alts. and add.)**, 1203 Orange street, Wilmington, \$6,024. Architect, private plans. Owner, Milton Simpler, on premises. Brick, 1 story, slag roof, concrete floors, electric lighting. Contract awarded to Charles E. Anderson 3 East Thirteenth street, Wilmington.

**Residences (6)**, Union Park Garden, Wilmington, Del., \$24,000. Architect, private plans. Owners, Wilmington Home Corp., 923 Market street, Wilmington, Del. Brick, 2 stories, 14x37 feet and 13x37 feet, composition roof, pine floors, hot water heat, electric light. Contract awarded to J. A. Bader & Co., 923 Market street, Wilmington.

**Garage**, Tatnall street and West Twentieth street, Wilmington, Del., \$7,500. Architect, private plans. Owner, James J. English, Dupont Building, Wilmington, Del. Brick 1 story, 10x19 feet, slag roof, concrete floors, electric light. Contract awarded to S. R. Jackson, 831 Orange street, Wilmington, Del.

**Residences (9)**, West Twentieth street, Wilmington, Del., \$49,500. Architect, private plans. Owner, James J. English, Dupont Building, Wilmington, Del. Brick, 2 stories, 25x32 feet, slag roof, hot water heating. Contract awarded to S. R. Jackson, 831 Orange street, Wilmington, Del.

## Miscellaneous Construction News

**Parish House**, Salisbury, Md. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, St. Peter's Episcopal Church, Salisbury, Md. Brick, 1 story and basement, 93x36 feet, slate and slag roof, oak and pine floors, bond, tile work, metal lath, electric work, steam heat. Contract awarded Morris & Pusey, Cape Charles, Va.

### Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 19, 1923—Sealed proposals will be opened in this office at 3.00 P. M. November 9, 1923, for new roof on large dwelling and alterations to farm buildings to make garage space at the U. S. Veterans' Bureau Hospital, Castle Point (Chelsea), New York. Drawings and specifications may be obtained from the superintendent of construction at Chelsea, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

### BUILDING OUTLOOK

In the opinion of many of the leading financiers the threatened building slump is rapidly passing and there is a strong inquiry for capital to be used for building purposes. According to the best information available, the housing shortage has only been reduced by about 25 per cent. during the past four years. It is estimated that in a third of the cities and towns of the United States having a



population of more than 8,000 there are inadequate school facilities. In addition to the house and school shortage there is an almost unprecedented demand for commercial buildings. It is believed that by autumn the slight slump which first became noticeable in June will be entirely overcome. Every indication points to 1923 as being the banner year in point of volume and value of construction in this country. The first half of 1923 registered a valuation of more than \$500,000,000 in excess of any similar period heretofore.—*Associated Contractors.*

Another jolt for "the white collar job" is seen in the announcement from Carnegie Institute of Technology, in Pittsburgh, that, of the 1200 night students enrolled for the present year in the College of Industries, fifty per cent. have signed to take course in the building trades. This division of students is viewed with unusual significance by officials of the Institute as representative of a growing tendency among the young men of Pittsburgh to learn craftsmanship.

Moreover, according to the report, the increased interest in the building construction courses is confined to no one branch of the industry, but is reflected in each department offering building courses. In some of the departments, the number of students enrolled for the present year is 200 to 300 per cent. larger than of the previous year.

The courses in carpentry and in electrical equipment and construction report the heaviest gains, especially in new students. Of the sixty or more carpentry students enrolled up to a few days ago, more than 40 were new students, while the department of electrical equipment and construction enrolled more than 60 new and more than 50 former students. The reason for the heavy enrollment of would-be electricians and carpenters this year is attributed by Carnegie Tech authorities to the high wage scales at present in force in these branches of work. Another reason, somewhat indirectly responsible but nevertheless noticeable, is due to the growing interest that labor unions are showing in educational facilities for their respective apprentices. A striking example of this attitude by the unions was revealed in the recent action of the local union of the International Wood-Wire and Sheet Metal Lathers' Union which, on its own initiative, has effected a working agreement with Carnegie Tech to train apprentices of this trade. As a result of this agreement, about 15 apprentices attached to the local sheet metal lathers union have enrolled at the Institute, and are compelled by the union to attend a special night course three nights a week for the next two years.

While the action of the sheet metal lathers is the only official agreement that has been announced by the Institute, several other unions in the allied building trades have taken steps to require night school attendance of their respective apprentices.

High enrollment figures for the year are also reported by the Department of Heating, Ventilation and Sanitation where courses in plumbing, welding, and estimating have attracted about 75 students ranging from apprentices to contractors.

Evidence that many skilled tradesmen in various industries are ever waiting for educational opportunities is seen at Carnegie Tech by the unusually high registration of journeymen sheet metal workers for courses in the sheet metal department. For the first time this year, this department announced a group of special courses for journeymen workers, with the result that the majority of the students this year identify themselves as journeymen.

In the courses in masonry and concrete work, the percentage of expansion over last year has been equally high commensurate with other building construction departments. This division reports more than 30 students.

Adherents to the desirability of "the white-collar job" may find some consolation in the fact that the more than 50 students registered in structural drawing, and an equally large number enrolled in architectural drawing, represent substantial increase, also; but according to Dr. T. S. Baker, President of Carnegie Tech, many of the drawing students are skilled craftsmen.

Although the increase in night students this year in the Industries College is unusually large, similar degrees of expansion, it is reported, have occurred in the College of Engineering, and in the College of Fine Arts. The new students in the Engineering College are made up largely of high school graduates who have been denied the opportunity to attend college in the day-time, and are taking night engineering courses, as the next best thing. Several departments in the Fine Arts College have found it necessary to curtail enrollments, in order to keep classes within capacity.

#### THE BUILDING SITUATION

What is the present status and what does the future promise? This is a question that every building material supply dealer has been asking for the past few months. To answer this is not an easy matter because any kind of a forecast would only be a guess. There is probably no other basic industry that is subject to such erratic changes as the building industry. For this reason a prediction may be changed over night. There

are guesses and guesses, however, and the most logical forecast seems to be the following, which is taken from a recent bulletin issued by the Standard Statistics Co., one of the largest and most reliable organizations of its kind in the country:

#### *Building Needs Still Large*

"There are, according to reliable estimates, 50 cities in which building could continue at about 25 per cent. above normal for 10 years before catching up with the war and post-war deficit. A recent survey of representative cities by the National Association of Real Estate Boards reported a housing shortage in 67 per cent. of these cities, with the rents still rising in 53 per cent. of them. These figures check with responsible assertions regarding the demand for money for building purposes; the demand is good. The supply, furthermore, is also good.

#### *Construction Costs Will Remain High*

"Of course, it must be recognized that construction costs are roughly 100% above the pre-war level, against a general average of wholesale prices but 50 to 60 per cent. above the same level. Both building materials and wages in the building trades are 'out of line!' But this irregularity has causes that cannot be removed suddenly, if at all.

"Lumber, for instance, will remain high because it must come from remoter and less generous forests. All building materials also must pay higher freights until the slow process of reducing transportation costs is carried through. The coal that is used by manufacturers of brick, glass, builders' hardware, etc., is more expensive than before the war by at least 75 per cent. And most of all, there is the factor of limited man power in the building trades.

#### *Probably Slow Decline in Costs*

"It will take time for these fundamental conditions to undergo a substantial change. Meanwhile the costs of building will decline but slowly, and in very irregular fashion. Real 'stabilization,' except for brief periods, is hardly to be expected for some years.

"Consequently, the best policy for those who contemplate building is to be bold, yet patient. Build when you are ready, unless there happen just then to be signs of a run-away market.

"You may save something by waiting, but you will have to wait a long time in order to save very much.

"You may lose something by going ahead, but this loss is very likely to be spread out slowly over the years. Against this possible loss the home owner will set off the use of his home in the meantime, and the business man will set off the chance to use his building in making business profits that must be made tomorrow if they are to be made at all."

—*Atlas Almanac.*



## THE IMPORTANT FACTOR OF SAFETY FROM FIRE

*The Small Home With a Fire-Safe First Floor is Now Within Reach of the Average Owner*

According to reliable statistics, the one place where fireproof construction is most needed is the place where it is slighted the greatest. We have reference to the small home.

We have been accustomed to reading the advertisements which state that this hotel, that office building, bank, theater or mammoth apartment is of fireproof construction and, therefore, safe for occupancy. On the other hand it is very seldom that the average home-builder constructs his home with that object in view.

Why build a fire-safe home? Statistics show that at least two-thirds of the total number of fires in this country occur in houses, flats and apartments. Add to this cheerless bit of news the fact that about 38% of these happen at night and are given a chance to obtain great headway, and you have the answer to the question.

It would be difficult to design a structure more susceptible to flames than the ordinary dwelling house and when the numerous possibilities of fire are considered, it is no wonder that dwellings can be blamed for such a great part of our stupendous national loss by fire.

The high cost of fire-resistant construction in the past, however, was to a great extent responsible for this laxity in building, but with the advent of pressed steel joists and metal lath, the costs have been so reduced that every home builder can now be assured of maximum fire protection at a cost within his means.

As the result of an extensive research, the United States Geological Survey announce that 74% of all fires originate in the interior of buildings, and the National Fire Protection Association elaborates further with the statement that the majority of these inside fires are caused by steam pipes, hot-air ducts, furnaces, gas meters, water heaters, hot ashes and other appliances located in the average home almost exclusively below the first floor.

It is very evident, then, that if these fires can be confined to the place of their origin, the chances of a serious fire are very slight. Working upon this theory, builders have, through the use of steel joists and metal lath evolved a fire-resistant blanket for basement fires that will reduce to a minimum the hazards of dwelling house fires.

The fire-safe first floor, as it is termed, being composed of pressed steel joists and metal lath offers a very light dead-weight type of fireproof construction. Such a floor entirely eliminates wood forming. After the joists are placed in

position, metal lath is clipped to them and a thin concrete slab is spaded onto the lath as a comparatively thin mix, the lath acting as centering and reinforcing for the slab. Where a wood-finish floor is desired, nailing screeds are run lengthwise with the joists, and the concrete leveled off even with the screeds, thus offering a nailing surface for the wood flooring.

Because of the efficiency and economy of this type of construction, it is the duty of architects, engineers and contractors to help the prospective home owner guard his dwelling against total destruction, by advising him how steel joist and metal lath first-floor construction is the greatest fire insurance he can put into his home.—*Right Angle.*

## FIGHT THIS SACRIFICE

Did you know that every minute of the year we pay out \$1,000 for fire losses, and that one human life is consumed by flames every half hour? A thousand dollars a minute—two lives an hour—a terrible toll and a needless one.

It has been estimated that 1500 fires break out in the United States every twenty-four hours. Every one of these fires is caused by some improper condition, usually one which is the result of negligence, and which can be removed with little or no difficulty.

Anyone who allows rubbish to accumulate in or near a building is just as negligent as he who carelessly tosses his glowing match into the pile. Electric irons and other applicants, when left turned on, cause many fires. The use of wooden boxes for ashes is like sending an invitation to the nearest fire station. Metal containers for matches and for oil mops and dust cloths will prevent many fires. Eighty-five per cent. of all fires are preventable—that is, are the result of downright carelessness. Every owner can help cut down this waste by removing these causes around his property.

The exclusive use of fire-safe structures would cut our fire loss to but a fraction of its present figure. And when confronted by the fact that fire-safe construction, such as concrete in various forms as well as other types, costs but 3 to 5 per cent. more than inflammable construction no building owner can justify himself in risking a contribution to our already tremendous fire loss, to say nothing of our sacrifice of human lives.

—*Portland Cement Association.*

**Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides, and, following them, you reach your destiny.—Carl Schurz.**

## CONCRETE DANCE FLOORS

A satisfactory surface for dancing is usually obtained by giving an existing concrete floor one of the following simple treatments. However, a more perfect surface will be obtained by first grinding the floor with a floor surfacing machine.

1. Liquid soap applied to a floor in the form of a lather and rubbed into the pores with a scrubbing brush will, after repeating the process, produce a uniform, smooth surface. An occasional application of powdered soap to a floor thus treated will keep it in fairly good condition for dancing. If the floor is somewhat rough and porous several coats of the soap treatment will be needed.

2. A mixture of paraffin wax and turpentine may be applied to the floor in sufficient quantity only to fill up the pores. An excess of the material would produce a sticky film. Both turpentine and paraffin wax should be of a good grade and no more paraffin used than will be completely dissolved in the turpentine. After the turpentine has evaporated, that is, after the floor surface is dry, it should be treated with powdered wax in the same manner as for a wooden dancing floor.

3. Paraffin wax may be driven into a concrete floor by heating the floor and treating it with melted paraffin wax. The object of heating the floor is, of course, to obtain penetration of the wax. The turpentine in No. 2 above is used as a carrier to get the paraffin to penetrate into the concrete surface.

## INDUSTRY STANDARDIZES SIZE OF CONCRETE BLOCK AND BRICK

At a recent meeting in Chicago, attended by practically every manufacturer of concrete block and brick machinery in the country, definite action was taken in the matter of standardizing sizes of concrete brick and block. For the former, the size adopted as standard is 2¼ by 3¾ by 8 inches; the same as that adopted for common brick in the clay industry and recognized as a standard by the U. S. Department of Commerce and leading technical organizations. For concrete block the measurements adopted were 7¾ by 15¾ inches for the face, and for the thickness, 6, 8, 10 and 12 inches, according to wall requirements. A representative of the U. S. Department of Commerce was present at all sessions in conference and participated in the discussions which led to the above size standard.

**The man who doesn't advertise, these days, is forgotten. The world is too busy to look up dead ones.**



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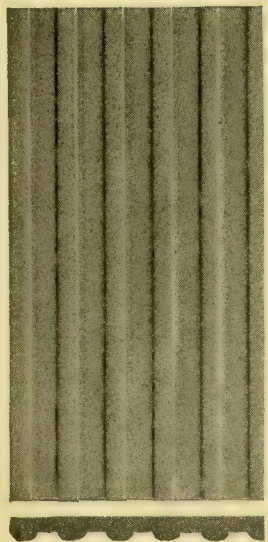
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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 44  
October 31, 1923

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors  
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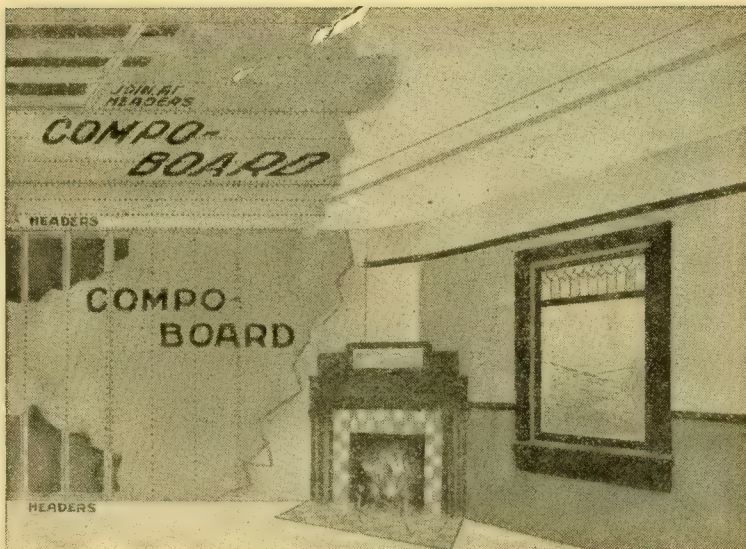
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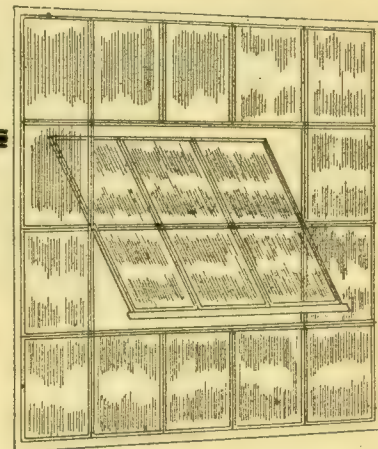
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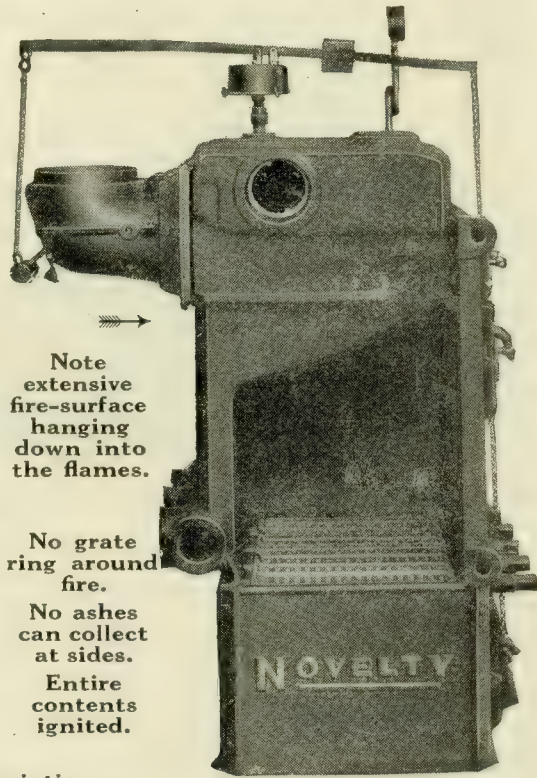
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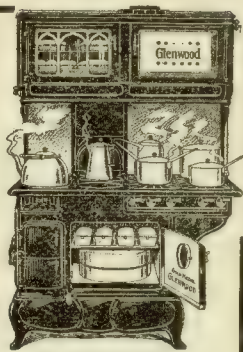


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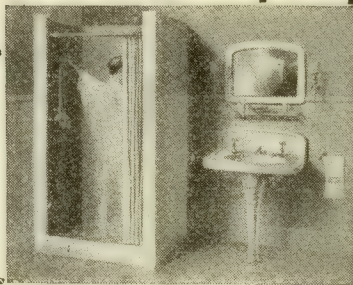


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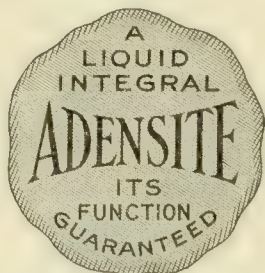
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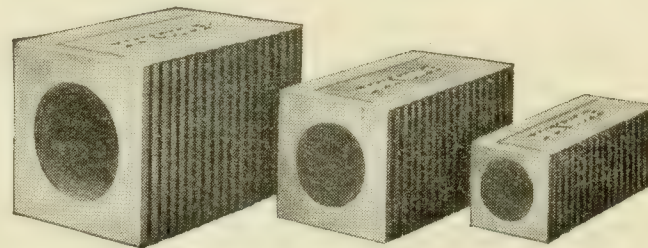
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 44

PHILADELPHIA  
October 31, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

Joseph M. DeLone..... Secretary and Treasurer

H. L. Sharpe.....Editor

Advertising Manager, L. A. DeLone

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To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

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Subscriptions not discontinued at expiration  
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Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### U. S. AGENTS REPORT CONDITIONS

*Department of Labor's Observers De-  
clare Continued Building Activity  
is General*

Workmen engaged in construction activities are assured of steady employment for "some time to come," according to the September bulletin issued by the Employment Service of the Department of Labor.

Continuing, this bulletin, compiled from telegraphic advices received from the department's agents throughout the country, says:

"There were no signs of the much-heralded slump in building activity which was anticipated for the fall months, and building construction is maintaining a steady pace in practically all the larger cities. In some sections already large construction programs were considerably augmented by the letting of new contracts. Continuation of state road construction work throughout the country affords employment to tremendous numbers of semi-skilled and common labor, and very little unemployment is reported in any district."

Extracts from various district reports follow:

New England: Extensive building program and road construction affords employment for many workers, with a shortage of certain building-trade mechanics reported. Inadequate housing conditions

exist in many sections, especially in the larger cities.

Middle Atlantic: Industries manufacturing building supplies are operating at capacity and have sufficient orders to afford steady employment to all workmen in their lines throughout the fall and winter. NEW YORK CITY'S shortage of skilled building labor is becoming less acute, though there still is a shortage of tile setters, steam fitters and plasterers. Building continues brisk in the large cities and suburban sections of NEW JERSEY, with building and construction labor in increasing demand. PENNSYLVANIA'S building construction is fairly well balanced. On the whole, building-trade workmen are well employed.

East North Central: ILLINOIS' state building activities which slowed up considerably during the mid-summer months, are reported as swinging ahead, with every indication of again resuming proportions of a building boom, and with an acute skilled labor shortage existing. There has been some decrease in building in INDIANA, but the totals for this year will far exceed those of 1922. Building in WISCONSIN is reported as more active than in mid-summer, and it seems reasonably certain that a large volume of construction work will be carried on through the winter. OHIO'S building conditions are "in good shape" and the indications are that strong activity will continue right up to the point

where cold weather slows up the program.

West North Central: Building chances are plentiful in MINNESOTA, due largely to curtailment of construction activities. Operations have fallen off in the larger centers of MISSOURI, with the exception of St. Louis, which has brought about a surplus of skilled workmen, though common labor remains in good call, particularly for road projects. IOWA reports conditions practically duplicating those found in MISSOURI, and common labor for road work also is in good demand in SOUTH DAKOTA. Building tradesmen are plentiful in NORTH DAKOTA, following completion of many construction jobs. Building in NEBRASKA is especially brisk, with all skilled workers engaged.

South Atlantic: Continuation of the "tremendous building program" reported from DELAWARE sections is noted, and MARYLAND reports practically all skilled building tradesmen employed, with a strong demand for common labor on road projects. The "enormous" construction program of the DISTRICT OF COLUMBIA continues unabated and is absorbing all available workmen. The supply of labor in WEST VIRGINIA and VIRGINIA also is absorbed, and similar conditions are reported from GEORGIA and FLORIDA.

East South Central District: A slight slackening is noticed in KENTUCKY'S

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building activities, and highway construction shows some reduction in force. TENNESSEE'S building continues at a steady pace with some relief in the road labor shortage. All building trades craftsmen are employed in ALABAMA, and MISSISSIPPI'S additional highway construction is employing more labor, with an adequate supply.

West South Central: Building in LOUISIANA shows no appreciable fluctuation, with a moderate excess of craftsmen reported in principal centers, and ARKANSAS reports a seasonal falling off in construction. OKLAHOMA reports a slight pick-up in building, although supply still exceeds demand of workmen in nearly all the trades, and closely similar conditions are noted in TEXAS.

Mountain: NEW MEXICO reports building moderately active, with a large highway construction program under way. Increasing activity is the word from ARIZONA, where building mechanics of all classes are in strong demand. Favorable weather conditions in UTAH have permitted continuance of road work, and building activities in large centers is reported as "exceptionally active." A sufficiency of building craftsmen is noted in WYOMING. Twenty-three highway projects are under construction in NEVADA, with others soon to be undertaken or made the objects of advertisements. A shortage of building labor is observed in IDAHO, and the same condition is reported in some sections of MONTANA. Work on the portals of the 6-mile Moffat Tunnel and other projects in COLORADO is making a steady bid for labor.

Pacific: Building in CALIFORNIA has decreased gradually, with a shortage of plasterers, bricklayers and tile setters still in evidence. A drop in construction work in OREGON also is reported, while a similar condition in WASHINGTON has not yet had sufficient effect to cause unemployment, it is stated.

The torrents of rain last Tuesday did not deter the determination of the Masters in the Building Industry who are members of the Philadelphia Builders' Exchange and Employers' Association from going through with their Fall Outing at the Lu Lu Temple Country Club as planned. The golf schedule, in which fifty golfers were entered, with their handicaps, to play the Lu Lu course for prizes offered by the Builders' Exchange for the low metal score, of course, had to be postponed. This was a great disappointment, but the Builders' Exchange members had no trouble entertaining themselves with the indoor games provided by trying their luck at pool, bil-

liards, cards and the interchange of good fellowship with one another.

A six o'clock Beef Steak Dinner was a special feature of the Outing, which was followed by a Vaudeville entertainment of a high order.

The attendance was especially good, considering the stormy weather, there being 120 members present at the Dinner and Entertainment.

Amos Y. Leshner, the new president of the Builders' Exchange, spoke briefly on the work of the organization, and Thomas F. Armstrong of the Entertainment Committee presided at the evening's entertainment.

### SHOWS OVERBURNED LIME IS CAUSE OF "POPPING" IN PLASTER

Lime which has been overburned or which has been burned during hydration is the cause of popping of plaster, tests made at the Bureau of Standards have shown. In this type of failure small particles appear to expand and push themselves out of the plaster, leaving tiny holes. In extreme cases these holes may be sufficiently large or numerous to be unsightly. It has been shown that popping will not be serious if the lime is ground fine enough to pass a number 50 sieve, as in that case the lime will be completely hydrated during the mixing and application, or else the particles of defective lime will be too small to cause noticeable holes.

These tests were made in co-operation with the National Lime Association, the Contracting Plasterers' Association, and the International Plasterers' Union. Ninety-eight panels were erected containing different impurities in different sized particles. It was found that, with the possible exception of sand, impurities other than overburned lime did not cause popping no matter how coarse they were.

The Charles H. Robbins Co., Blue Prints, Blue Print Papers, Drawing Materials, Artists' and Architects' Supplies, Surveying Instruments, Transits, etc., for many years at 1209 Arch Street, Philadelphia, has removed to their new building at 1729-31 Samson Street, Philadelphia.

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS;  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residence and Store**, Southeast Corner Eighth and Cayuga streets, \$10,000. Architect, private plans. Owner, L. Feldman, 1532 Land Title Building, Philadelphia. Brick, 2 stories, 20x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garage**, 1611 North Wellington street, Philadelphia. Architect, E. A. Wightman, 1213 Filbert street, Philadelphia. Owners, Taltuv Brothers, care of architect. Brick, 1 story, electric light, slag roof, cement floors. Architect taking bids due November 2nd.

**Grading and Paving**, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Owners taking bids due November 5th at noon.

**Schools (alts.)**, various locations, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. F. Read, sanitary improvements, including plumbing and heating. West Philadelphia High School, moving picture booth. Stetson, Jr., High School, gymnasium equipment. Northeast High School, store rooms for electric and plumbing. West School, new iron flag pole. Calhoun School, general repairs. Various schools, general repairs. Owners taking bids due November 8th.

**Parochial School**, Elkins Park, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. James' Roman Catholic Church, Rev. J. J. Gibbons, Elkins Park. Stone, 3 stories, 98x56 feet, slag roof, pine floors, metal lath, tile work, ornamental iron work (plumbing, heating and electric reserved). Architect taking bids due November 5th, 10 A. M.

**Sales and Service Building**, East side of Broad, above Allegheny avenue. Architect, Philip S. Tyre, 1505 Arch street, Philadelphia. Owners, Packard Motor Co., 319 North Broad street, Philadelphia. Brick, stone, steel, concrete, size of lot 200x265 feet. Preliminary plans in progress. Too early for details.

**Apartment House**, City Line and Bryn Mawr avenue, Philadelphia. Architects, Hoffman Henon Co., Finance Building, Philadelphia. Owner, A. F. Fink, Land Title Building, Philadelphia. Brick, steel, stone, 4 stories, 140x250 feet. Site purchased. Preliminary plans in progress.

**Office Building (add.)**, 1603-05 Walnut street, Philadelphia. Architect, C. E. Oschlager, 1615 Walnut street, Philadelphia. Owner, I. Milgram, Fifteenth and Walnut streets, Philadelphia. Brick, stone and steel, 16 stories, 40x133 feet, limestone, concrete and terra cotta. Plans in progress.

**Apartment House**, Southwest Corner Sixteenth and Chancellor streets, Philadelphia. Architect, George S. Idell, 1703 Chestnut street, Philadelphia. Owner, S. Frank Woodbury, 3345 North Seventeenth street, Philadelphia. Brick, stone, steel, 10 stories, 15x55 feet, steam heat, electric light, tile and marble work, hardwood, composition, tile floors, elevators. Preliminary plans in progress.

**Garage and Porch**, Broad and Castle streets, Philadelphia. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 1 story, 20x30 feet, asphalt and slate roof, cement floors. Plans in progress.

**Apartment House**, 224-26-28 South Nineteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Plans in progress.

**Store and Residence (alts.)**, 2337 Germantown avenue, Philadelphia. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owners, Bromund & Sons Co., on premises. Hot water heat, marble work, copper skylight, floor repairs, plumbing, cement work. Plans in progress.

**Synagogue and Community Building**, Thirty-first and Diamond streets, Philadelphia. Architects, Sugarman, Hess & Berger, 16 East Forty-third street, New York City. Owners, Bnai Heshurum Congregation, on premises. Brick, reinforced concrete, granite, steel, precast stone, concrete and stone, 3 and 1 stories, 159x80 feet (heating, plumbing, electric work and structural steel reserved), slag, tile, copper ribbed roof, concrete and North Carolina pine floors, metal lath, tile and marble work, hollow metal sash, copper skylights, iron and kalamein doors, bond, iron work and stairs, terra cotta, dampproofing and waterproofing, metal weather strips. Owners taking revised bids.

**Parish House**, Hancock and Diamond

streets, Philadelphia. Architects, Frank R. Watson, George E. Edkins, Will Helyl Thompson, 1211 Walnut streets, Philadelphia. Owners, St. Boniface's Church, Rev. J. M. Beierschmidt, C. SS. R., on premises. Brick, stone, steel, reinforced concrete, 2½ stories, 73x139 feet, steam heat, electric light, marble work, rolled steel sash, hollow metal doors, bond, dampproofing, slate roof, cement floors. Architects taking bids due November 7th, noon.

**Sales and Service Building (add.)**, Broad and Belfield avenue. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Henry & Gunkel, 4634 North Broad street, Philadelphia. Brick, concrete, steel, 1 story, 130x101 feet, slag roof, cement floors, hollow tile, galvanized iron skylights, bond, waterproofing, ornamental iron work. Architect taking bids due November 2nd, at 4 P. M.

**Warehouse**, 3935-37 Germantown avenue, Philadelphia. Architects, Moores & Demford, 110 East Forty-second street, New York. Owners, Interstate Storage & Warehouse Co., on premises. Reinforced concrete and brick, steel, 7 stories and basement, 106x53 feet, steam heat, electric light, metal lath, tile and marble work, rolled steel sash and skylights, hollow metal sash, fire and kalamein doors, floor hardener, ornamental iron work, slag roof, concrete, ceramic tile floors, hollow tile, elevators, safety treads, rolled steel shutters, dampproofing, structural concrete. Architects taking bids due November 3rd.

**Residence**, B and Borbeck streets, Fox Chase, Pa. Architect, Christian H. Fries, 8237 D street, Fox Chase, Pa. Owner, Mrs. Ella G. Baxter, Fox Chase, Pennsylvania. Frame and stucco, cut stone, 2½ stories, 45x24 feet, shingle roof (plumbing, heating and electric reserved), oak and pine floors, tile work. Architect taking bids due November 1st.

**Residence**, C and Borbeck streets, Fox Chase, Pa. Architect, Christian H. Fries, 8237 D street, Fox Chase, Pa. Owner, Paul B. Cameron, 412 Rhawn street, Fox Chase, Pa. Frame, cut stone, 2½ stories, 57x24 feet, shingle roof, oak and pine floors, tile work. Architect taking bids due November 1st.

**Residence (alts. and add.)**, Eleventh and Cheltenham avenue, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Morris Gross, care of architects. Brick, concrete and cement, limestone, 77 feet, 6 inches x 56 feet, slag roof, carpentry and mill work, metal weather strips, oak floors, cork tile, plastering, metal lath, structural steel and iron work, tile and marble work. Architect taking bids due November 5th.

**Alterations and Addition into Printing Shop**, 121-23 North Eleventh street. Architect, private plans. Owners, Earle & Parris, 40 North Eleventh street, Philadelphia. Brick, iron work, tin roof, carpentry and mill work, steel sash and doors, plastering, plumbing, heating alts. (Elevators, fire escapes, paper-

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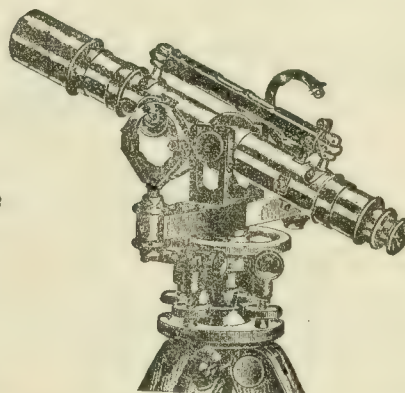
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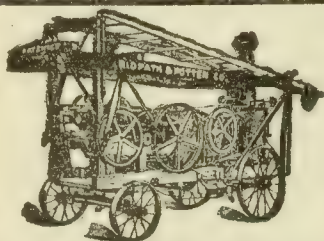
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hanging, electric work reserved). Owners taking bids due as soon as possible.

**Apartment House**, Northwest Corner Forty-third and Chestnut streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, I. Newton Smith, Fortieth and Walnut streets, Philadelphia. Brick, steel, concrete, limestone, terra cotta, 4 stories and basement, steam heat, electric light, tile and marble work, slag roof, hardwood and tile floors, (2) automatic elevators, roof ventilators, fire doors, ornamental iron work. Architect will be ready for general bids after November 1st.

**Operaiton of Residences**, Sixty-sixth and Lansdowne avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Pompey Ansell, Sixty-sixth and Lansdowne avenue, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hardwood and pine floors, hot water heat, electric light, metal lath, tile work, cement work, basement garages. Owner taking sub-bids.

**Store (alts.)**, Northwest Corner Fifty-second and Haverford avenue, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, J. Silver, on premises. General alterations, electric light, mineral floors, copper bulks, plate glass, metal ceilings. Owner will build.

**Store and Lodge Building (alts. and add.)**, Southwest Corner Twentieth and Montrose. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owners, Security Realty & Cont. Co., 1193 Carpenter street, Philadelphia. Brick, 3 stories, 30x17 feet, slag roof, pine floors, fire tower, metal ceilings, plate glass, flush bulks, electric work, 1-pipe steam heat. Owners will build and are taking sub-bids.

**Shop (alts.)**, Northeast Corner Second and Jackson streets, \$5,000. Architects, William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia. Owners, Morganthaler Brothers, on premises. New concrete roof. Architects will build.

**Apartments (alts. and add.)**, 4226 Parkside avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Architect is taking sub-bids and general bids and will award contract in a few days.

**Residences (4)**, Foulkrod street, East of Large street, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, W. M. France, Sons, Inc., 1516 Oxford Pike, Philadelphia. Brick, 2 stories, 16x40 feet, 16x42 feet, (2) 18x30 feet, hot water heat, electric light, tile work, galvanized iron work, slag roof, hardwood. Owners will build.

**Residences (2)**, Harrison, West of Large street, Philadelphia. Architect, Karl F. Otto, 1828 Arch Street, Philadelphia. Owner, Rush

Bros., Darrah, below Margaret St., Phila. Brick, 2½ stories, 16x46 feet, slag and tile roof, hardwood floors, tile work. Owner will build.

**Store and Residences (2)**, Tulpehocken street and Belfield avenue, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Haney & Hannigan, on premises. Brick, 2 stories and basement, 22x35 feet, 16x41 feet, hot water heat, electric light, tile work, slag roof, hardwood and pine floors, metal bars, plate glass. Owners taking sub-bids.

**Residences (2)**, North side Tulpehocken street, East of Wayne avenue, \$9,000 each. Architect, private plans. Owner, Frank B. Williams, Sixty-sixth avenue and Ogontz avenue, Philadelphia. Brick, 2 stories, 20x50 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, East side Northumberland street, South of St. Vincent street, \$8,000. Architect, private plans. Owner, A. H. Reynolds, 4204 Franklin street, Philadelphia. Frame, 2 stories, 26x34 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Rooming House (alts. and add.)**, 5223-25 Baltimore avenue, \$5,000. Architect, private plans. Owner, J. M. Baker, 730 South Fifty-second street, Philadelphia. Brick, 2 story add., 16x20 feet, slag roof, general alterations. Owner will build.

**Residences (13)**, 6526-28 North Sixth street, 6616-18-20 North Tenth street and 1001-15 Sixty-sixth avenue, and **Garages (13)**, \$97,500. Owner, Philip Robin, 3334 West Harold street, Philadelphia. Brick, 2 stories, 16x47 feet, and 1 story, 9x8 feet, garages, 1 story, 16x18 feet, slag roof, hardwood, pine and cement floors, hot water heat, electric light, tile work. Owner will build.

**Garage**, West side Buist avenue, West of Theodore avenue, \$23,000. Architect, private plans. Owner, G. R. Heap, 4210 Osage avenue, Philadelphia. Brick, 1 story, 96x145 feet, slag roof, cement floors. Owner will build.

**Residence**, 7216 Lawndale avenue, Philadelphia, \$6,500. Architect, private plans. Owner, Charles Freeman, 7323 Claridge street, Philadelphia. Brick, 2 stories, 16x46½ feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (8)**, East side Wyoming avenue, South of Adams avenue, \$6,500 each. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

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**Residence**, 5152 Ludlow street, Philadelphia, \$4,000. Owner, Louis Elgart, 5232 Parkside avenue, Philadelphia. Brick, 2 stories, 15x50 feet, hot water heating, electric lighting, slag roof, hardwood and pine floors. Owner will build.

**Store and Storage Building (alts. and add.)**, 109 South Eleventh street, \$2,500. Architect, private plans. Owner, Samuel Laechner, Bulletin Building, Philadelphia. Brick, third story add., 20x11 feet, general alterations. Owner will build.

**Garage**, 6381 Overbrook avenue, Philadelphia, \$2,500. Architect, private plans. Own-

er, Victor Lee Emerson, on premises. Brick, 1 story, 61x22 feet, slag roof, cement floors. Owner will build.

**Garage**, South side Devon street, East of Moreland avenue, \$2,500. Architect, private plans. Owner, John McCoy, 57 East Mermaid Lane, Philadelphia. Brick, 1 story, 47x22 feet, tin roof, cement floors, electric lighting. Owner will build.

**Garage**, 208-10 East Sharpnaek street, Philadelphia, \$2,000. Architect, private plans. Owner, N. M. Addorie Co., on premises. Brick, 1 story, 35x21 feet, slag roof, cement floors. Owner will build.

## Contracts Awarded

### Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Residences (15)**, 700-38 North Sixty-fifth street, Philadelphia, \$106,000. Architect, private plans. Owner, Joseph Panus, 133 South Twelfth street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x11 feet, and (1) 2 stories, 15x41 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to Frank C. Caruso, 539 Marlyn Road.

**Garage**, East side Wayne avenue, South of Berkley street, \$6,500. Architect, private plans. Owners, John S. Craig Co., Wayne Junction, Philadelphia. Brick, 1 story, 30x85 feet, slag roof, cement floors. Contract awarded to Robert C. Lentz, 5505 Chew street, Philadelphia.

**Garage**, 3038-40 North Franklin street, Philadelphia, \$6,000. Architect, private plans. Owners, Bust Brothers, 2510 North Fifth street, Philadelphia. Brick, 1 story, 36x66 feet, slag roof, cement floors. Contract awarded to Charles Grindle, 609 West Tioga street, Philadelphia.

**Store**, 5029 Germantown avenue, Philadelphia, \$5,000. Architect, private plans. Owner, George H. Chapman, 4521 North Broad street, Philadelphia. Brick, 1 story, 33x70 feet, electric light, slag roof. Contract awarded to Fred Alfred, Sheldon and Shedaker streets.

**Residence**, North side Burgess street, West of Bustleton avenue, \$3,000. Architect, private plans. Owners, Schorch & Burgess, Seventeenth and Erie avenue, Philadelphia. Frame, 2 stories, 26x26 feet, pine floors, electric lighting. Contract awarded to Charles S. Olson, 1401 Ridge avenue, Philadelphia.

**Residence and Store (alts. and add.)**, 1241 South street, \$2,000. Architect, private plans. Owner, H. Plotnich, 1441 South street, Philadelphia. Brick, 1 story add., 4x24 feet, general alterations. Contract awarded to A. MacTavish, Inc., 2026 Waverly street, Philadelphia.

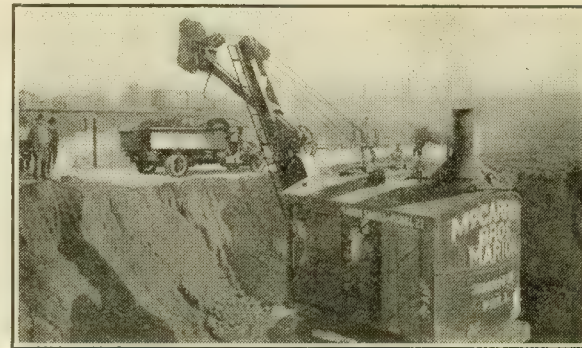
**Garage**, Nineteenth above Glenwood ave-

nue, Philadelphia. Architect, William Lowenthal, on premises. Owners, Haney White Co., on premises. Concrete and steel, 1 story, 20x60 feet, concrete roof, cement floors. Contract awarded Simon Reece, 2424 North Park avenue, Philadelphia.

**Garages (54)**, rear of Second and Ashdale streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, M. B. Shuben, care of Reliable Coal Co., on premises. Brick, 1 story, 103x135 feet, irregular, slag roof, concrete floors, electric lighting, steam heat, galvanized iron partitions, iron columns. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia.

**Kensington Branch**, 826-28 East Allegheny avenue, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Beneficial Saving Fund Society, Twelfth and Chestnut streets, Philadelphia. Brick, steel, cut stone, 2 stories, 49x49x69 feet, slag roof, cement floors, hollow tile, steam heat, metal lath, tile and marble work, kalamein doors, bond, ornamental iron work, vault doors, bronze work, Sledman Naturalized floors, skylights. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia, who are taking sub-bids.

**Garage**, Carlisle and Montgomery avenue, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Lionel Freidman, 251 South Fifteenth street, Philadelphia. Brick and steel, 1 story, 85x121 feet, 211x79 feet, asphalt gypsum roof, cement floors, roof ventilators, ornamental iron work, bond, steam heat, electric light, rolled



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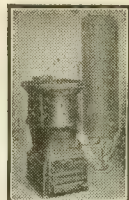
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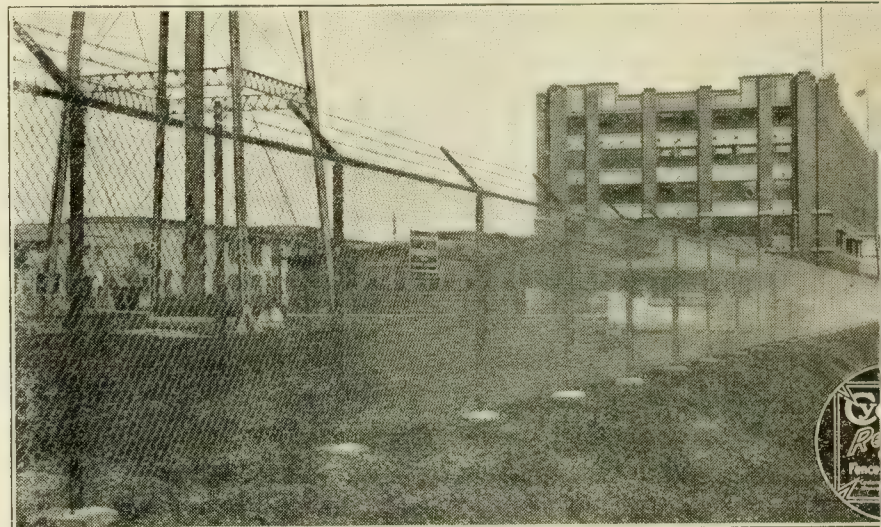
Roofing Tile

### O. W. KETCHAM

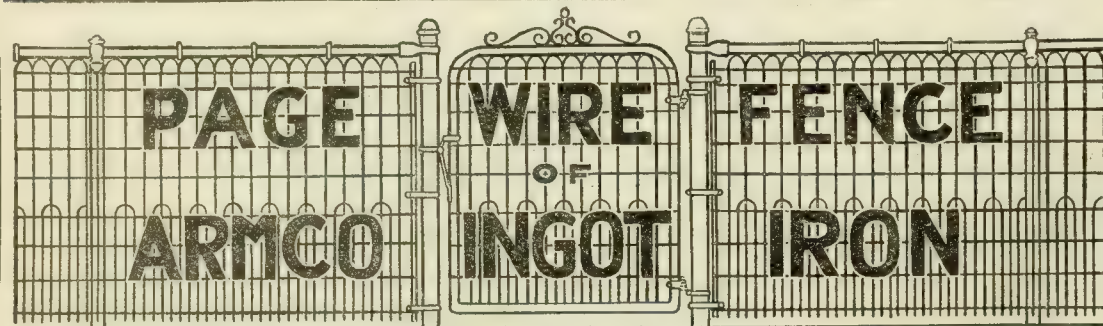
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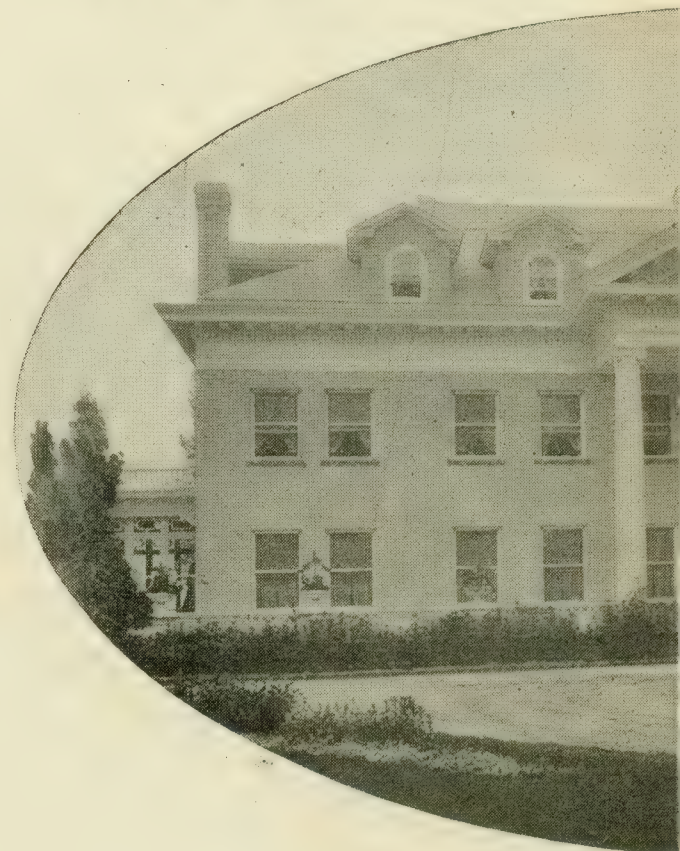
1222 Chancellor Street, Philadelphia

Race 4625

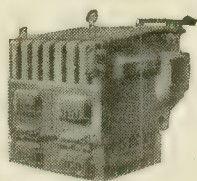
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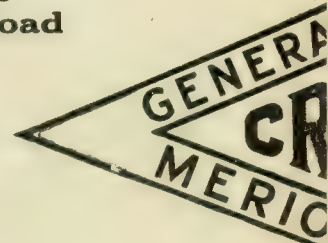
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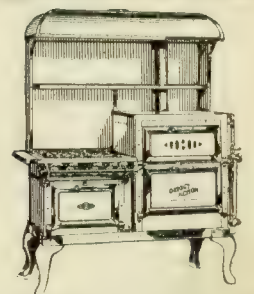
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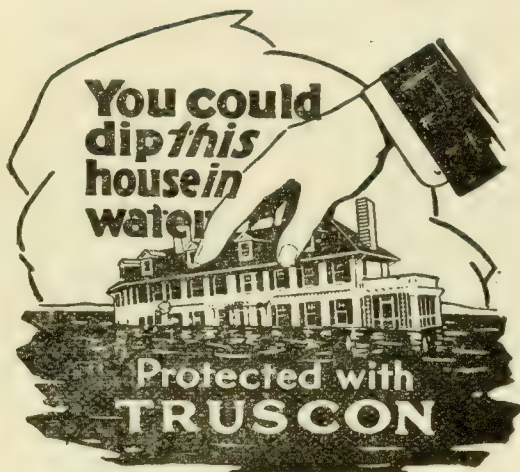
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steel sash. Contract awarded to Kober Const. Co. 34 South Seventeenth street.

**Building (alts. and add.),** 118-120 North Eighteenth street, Philadelphia, \$60,000. Architect, private plans. Owners, Musicians' Protective Association, on premises. Stone, brick, steel, terra cotta, steam heat, electric light, tile and marble work, hardwood floors, plastering, plumbing, general alterations. Contract awarded Hood & Gross, 1613 Chestnut street, Philadelphia.

**Evergreen,** Central Office Building, 3802 Chestnut street, Philadelphia, \$500,000. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, limestone, steel, 2 and 3 stories, 220x91 feet, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, fire doors, kalamein and hollow metal doors, bond, floor hardener, iron work, waterproofing and dampproofing, hollow tile, cement floors, slag roof. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Manufacturing Building, Power House and**

**Garage,** North side Erie avenue, West of F street, Philadelphia, \$96,000. Architect, private plans. Owners, Amos Hall & Sons, 2915 North Second street, Philadelphia. Brick, 1 story, building, 100x201 feet, 32x37 feet, garage, 40x42 feet, and power house, 42x53 feet, steel truss roof, cement floors, steel tank supports, electric work, steel sash, steam heat. Contract awarded to William Steele & Sons Co., 219 North Broad street.

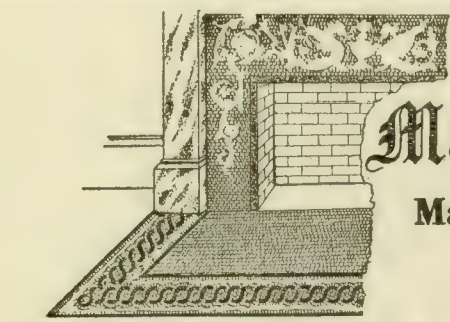
**Stores and Apartments (alts. and add.),** Southwest Corner Thirty-seventh and Walnut streets, Philadelphia, \$37,000. Architects, MacKenzie & Wiley, Liberty Building, Philadelphia. Owner, C. Alberti, 624 Cobb's Creek Boulevard, Philadelphia. Brick work, marble work, carpentry and mill work, plastering, structural steel, slag roof, plumbing, electric work, tile work, painting and glazing, hot water heat. Contract awarded Girard Realty & Const. Co., 3220 Columbia avenue.

**Cottage,** Chestnut Hill, Pa. Architect, J. Vaughan Mathais, Guarantee Trust Building, Atlantic City, N. J. Owner, Susanna Kitson, care of architect. Hollow tile and stucco, 2½ stories, 43x30 feet, hot water heat,

electric light, slate roof, oak and pine floors, tile work, waterproofing, ornamental iron work. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

**Church,** Seventh and Northeast Boulevard, Philadelphia. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. W. C. Sandt, 5203 North Carlisle street, Philadelphia. Stone base, 80x55 feet, marble leaded glass, lighting fixtures, steam heat, electric light, metal lath, concrete roof, ornamental iron work. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

**Residence,** 4514 Tackawanna street, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, G. Olivieri, 4518 Tackawanna street, Philadelphia. Stone and stucco, 2½ stories, 19x59 feet, tile and slag roof, hot water heat, electric light, castone, hardwood floors, interior and exterior tile, wall folding tables, ornamental iron work.



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Contract awarded Tony Oliveri, 1578 Adams street, Philadelphia.

**Stores (3)**, Forty-ninth and Baltimore avenue, Philadelphia. Architect, private plans. Owner, H. Noone, on premises. Brick, 1 story, 13x45 feet, slag roof, pine floors, electric light, gas radiation, wood bulks, plate glass, metal ceilings. Contract awarded A. J. Maurer, 1304 North Second street, Philadelphia.

**Alterations**, third floor, 1312-16 Arch street, Philadelphia, \$15,000. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Carpentry and mill work, heating alts., electric work, painting, plumbing, marbleoid and linoleum floors. Contract awarded Murphy Quigley, 1524 Sansom street, Philadelphia.

**Pennsylvania Building (alts. 6 stores)**, Fifteenth and Chestnut streets, Philadelphia, \$25,000. Architect, Ralph White, Pennsylvania Building, Philadelphia. Owners, Pennsylvania Building, Fifteenth and Chestnut streets, Philadelphia. Plate glass, plastering, mosaic floors, brick work, carpentry and mill work, bulk windows. Contract awarded Murphy Quigley, 1524 Sansom street, Philadelphia.

**Railroad Siding**, Fifty-third and Willow, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Central Const. & Supply Co., on premises. Concrete and steel. Contract awarded Industrial Const. Co., Swarthmore, Pa.

**Manufacturing Building**, 510-12 North Third street, Philadelphia, \$40,000. Architect, private plans. Owners, Fable & Co., 837 North Third street, Philadelphia. Brick, 2 stories, 40½x108 feet, 70x60 feet, steam heat, electric light, slag roof, steel sash, elevator, wood block and cement floors. Con-

tract awarded to Geo. Kessler Cont. Co., 1733 North Marvine street.

**Manufacturing Building**, Southwest Corner Almond and Ash streets, \$30,000. Owners, Bihu & Wolff Co., on premises. Brick, 1 story, 43x133 feet, 43x26 feet, slag roof, cement floors, electric work, steel sash. Contract awarded to F. Crompton & Co., 4614 Oakland street, Philadelphia.

**Residence**, Southwest Corner Stenton avenue and Stroud street, \$10,000. Owner, A. De Silver, 1415 South Eighth street, Philadelphia. Stone, 3 stories, 29x33 feet, hot air heating, electric lighting, shingle roof, hardwood and pine floors, tile work. Contract awarded to Harry C. Moore, Erdenheim, Pa.

**Store and Business Building**, 1324-28 South Front street, \$12,000. Architect, private plans. Owners, William Hamilton Estate, on premises. Brick, 2 stories, 60x100 feet, slag roof, electric work, pine floors. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

**Residence and Store (alts.)**, 2007 Walnut street, \$10,000. Architect, Abraham Levy, Real Estate Trust Building, Philadelphia. Owners, S. Cohen & Co., 225 South Broad street, Philadelphia. General alterations. Contract awarded to S. H. Levin, 1631 South Fifth street, Philadelphia.

**Residence and Store (alts.)**, 2025 West Columbia avenue, \$8,000. Architects, MacKenzie & Wiley, Liberty Building. Owner, Jacob Kahn, on premises. General alterations. Contract awarded to A. Frank, 1522 South Sixth street, Philadelphia.

**Garage**, 1208-12 East Susquehanna avenue, Philadelphia, \$7,350. Architect, private plans. Owner, Harry Taylor, et al., on premises. Brick, 1 story, U shape, slag roof, cement floors, electric work. Contract awarded to Edward C. Sherry, 188 West Girard avenue.

**Coal Storage Building (add.)**, Glenwood avenue, East of Broad, \$7,500. Architect, A. G. Zimmerman, 85 Ninth avenue, New York. Owners, National Biscuit Co., 85 Ninth avenue, New York. Steel and brick, 1 story, irregular shape. Contract awarded to John Griffiths & Sons, Twelfth and Glenwood avenue.

**Garage**, 4807-09 Umbria street, Philadelphia, \$5,750. Architect, private plans. Owner, Frank Krodak, 6663 Umbria street, Philadelphia. Brick, 1 story, 16x90 feet, and 1 story, 16x90 feet, slag roof, cement floors, electric lighting. Contract awarded to Tony Olivieri, 1578 Adams avenue, Philadelphia.

**Garage**, Northeast Corner C and Allegheny avenue, Philadelphia, \$5,000. Architect, private plans. Owners, Philadelphia Carpet Co., on premises. Brick and steel, 1 story, 20x42 feet, reinforced concrete roof, cement floors. Contract awarded to G. Kessler Cont. Co., 1733 North Marvine street.

**Residence**, South side Friendship street, West of Frontenac street, \$4,000. Architect, private plans. Owner, Walter Andrews, 108 West Roosevelt Boulevard, Philadelphia. Frame, 1 story, 22x28 feet, hardwood and pine floors, electric light. Contract awarded to Edward H. Christian, Princeton and Loretta avenue.

**Garage**, West side Weymouth street, South of Tioga street, \$6,000. Architect, private plans. Owner, Fred Munz, 3426 Reach street, Philadelphia. Brick, 1 story, 36x89 feet, slag roof, cement floors, electric work. Contract awarded to A. Earl Barnes & Co., 2044 East Clementine street.

**Garage (add.)**, 1531-33 North Twenty-seventh street, Philadelphia, \$5,000. Architect, private plans. Owner, Albert F. Faul, on premises. Brick and steel, 1 story, 36x30 feet, 18x58 feet, slag roof, cement floor. Con-

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tract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Residence**, Southeast Corner Fourth and Rockland streets, Philadelphia, \$5,000. Architect, private plans. Owner, Emanuel Richmond, 5945 Wharton street, Philadelphia. Brick, 2 stories, 28x24x16 feet, electric light, hardwood floors. Contract awarded to Taylor & Nicholas, 2628 Braddock street.

**Apartment (alts.)**, 4417 Baltimore avenue, Philadelphia, \$5,500. Architect, private plans. Owner, E. Axelrod, 402 South Fifty-seventh street, Philadelphia. General alterations. Contract awarded to K. Goldberg, 1011 Chestnut street, Philadelphia.

**Apartment House (alts.)**, 1537 Diamond street, Philadelphia, \$5,500. Architect, private plans. Owner, F. D. Fleming, 1334 Walnut street, Philadelphia. General alterations. Contract awarded to Saidel Const. Co., 5749 Walnut street, Philadelphia.

**Residences (2)**, West side Torresdale avenue, North of Wingate street, \$4,000 each. Architect, private plans. Owner, Joseph Passenilla, care of builders. Brick, 2 stories, 16x45 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Contract awarded to Holmesburg Const. Co., Welsh Road and Crispin street, Philadelphia.

**Bridge (between 2 buildings)**, Northwest Corner Trenton avenue and Huntingdon, \$4,000. Architect, private plans. Owners, Robert Carson & Sons, on premises. Steel bridge. Contract awarded to Robert L. Latimer & Co., 24 North Front street.

**Residence and Store (alts.)**, Northwest Corner Eighteenth and Sansom streets, \$4,000. Architect, private plans. Owner, George Kali-

man, 215 South Fifteenth street, Philadelphia. General alterations. Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia.

**Residence (alts.)**, 2222 Locust street, Philadelphia. Architect, private plans. Owner, Mrs. P. B. Lex, 126 South Twenty-second street, Philadelphia. Carpentry, metal bulks, plate glass, plastering. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

**Residence**, Southeast Corner St. Vincent and Claridge streets, \$5,000. Architect, private plans. Owner, Harold MacVaugh, 1011 Cottman street, Philadelphia. Frame, 2 stories, 20x36 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to George P. Gehring, 5735 Warrington Avenue, Philadelphia.

**Residence and Store (alts. and add.)**, 467 North Second street, \$2,750. Architect, private plans. Owner, Harry Weingast, 442 North Second street, Philadelphia. Brick, 1 story add., 20x19 feet, general alterations. Contract awarded to A. Cherry, 137 North Tenth street, Philadelphia.

**Residence (add.)**, 346 Delmar street, Philadelphia, \$2,475. Architect, private plans. Owner, Joseph Wukosek, on premises. Brick, 2 stories add., 16x12 feet. Contract awarded to Rocco Dalessandro, 2768 North Taylor street.

**Residence and Store (alts.)**, 5036 Wayne avenue, Philadelphia, \$2,000. Architect, private plans. Owner, George Meng, 4539 Wayne avenue, Philadelphia. General alterations. Contract awarded to John Roman, 414 East Brighthurst street, Philadelphia.

**Shop (add.)**, 2319-21 North Twenty-eighth street, Philadelphia, \$2,000. Architect, private plans. Owner, A. Masington, 1222 West Columbia avenue, Philadelphia. Brick, 1 story add., 16x66 feet. Contract awarded to Ettore Verna, 1218 South Twelfth street, Philadelphia.

**Laundry (repairs)**, 109-13 North Twenty-second street, Philadelphia, \$2,000. Architect, private plans. Owner, Frank Burno, 108 North Twenty-second street, Philadelphia. General fire repairs. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

**Residence and Store (alts.)**, 2252 North Front street, Philadelphia, \$2,000. Architect, private plans. Owner, Martin Sarrasy, on premises. General alterations. Contract awarded to Louis Cohen, 1904 North Twelfth street, Philadelphia.

**Stores and Apartments (alts.)**, Sixty-third and Lansdowne avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick work, concrete and cement work, metal ceiling, steam heat, plumbing, electric work, carpentry and mill work, plastering. Contract awarded to M. J. Benamy, 5758 North Fifth street, Philadelphia.

**Storage Building**, 734 Sansom street, Philadelphia. Consulting engineers, Franklin Co., Crozer Building, Philadelphia. Owners, Oyster Shell Products Co., care of engineers. Reinforced concrete and steel, 1 story, 83x26 feet, Barrett roof, cement floors. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

**Garage**, 11 Pleasant avenue, Philadelphia, \$2,400. Architect, private plans. Owner, Hugh McGovern, on premises. Brick, 1 story, 40x16 feet, slag roof, cement floors. Contract awarded to M. Conway & Son, 4150 North Broad street, Philadelphia.

**Garage**, Northeast Corner Sixteenth and Fitzwater streets, Philadelphia, \$2,100. Architect, private plans. Owner, Persifer Young, 1806 Callowhill street, Philadelphia. Brick, 1 story, 16x49 feet, slag roof, cement floors. Contract awarded to Robert Lawson, 1514 Catharine street, Philadelphia.

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## PENNSYLVANIA

# Construction News

**Residence**, Wyndmoor, Pa. Architect, J. William Shaw, Wayne, Pa. Owners, J. Carey & Friedman, Overbrook, Pa. Hollow tile and stucco, 2½ stories, 25x36 feet, shingle roof, oak and pine floors, electric light, hot water heat, iron work. Architect taking bids due November 1st.

**Factory and Storage Building**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consolidated Cigar Co., Prince and Lemon streets, Lancaster. Brick, steel, plank, 3 stories and basement, 83x90 feet, slag roof, concrete floors, electric light, freight elevators, hollow metal sash, fire doors. Plans in progress.

**School**, Brockport, Pa. Architects, M. E. Kressley Co., 13 North Fourth street, Harrisburg, Pa. Owners, Horton Township School Board, F. W. Jackson, Shawmut, Pa. Brick, 1 story, 130x70 feet, composition roof and floors, roof ventilators, hollow metal skylights (heating, plumbing and electric work reserved). Plans in progress.

**School**, Uniontown, Pa. Architect, Austin Reilly, Bennet Building, Wilkes-Barre, Pa. Owners, Coal Township School District, Mr. Brennan, secretary, Uniontown, Pa. Brick, 2 stories, 74x158 feet, slag roof, hardwood floors (heating, electric work, plumbing and ventilating reserved), slate treads, roof ventilators, metal lath, tile and marble work, iron stairs. Plans in progress. Owners will be ready for bids in two weeks.

**Church and Rectory**, Lancaster, Pa. Architect, not yet selected. Owners, St. Mary's Parish, care of Father McEntee, Lancaster, Pa. Work contemplated. Too early for details.

**Apartment**, Kingston, Pa. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. Rumbaugh, Kingston, Pa. Brick and steel, 4 stories, 47x58 feet, slag roof, pine floors, vapor heat electric light, tile work, hollow tile. Plans in progress.

**School**, Nanticoke, Pa. Architect, Ralph

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Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Nanticoke School Board, J. Bednar, secretary, Nanticoke, Pa. Brick and stone, 2 stories and basement. Plans in progress.

**Bungalow**, Gettysburg, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Paul G. Baschore, Crozer Building, Philadelphia. Store, 1½ stories, 42x17 feet, slate roof, hardwood floors, hot water heat, electric light. Plans about completed. Owner will take bids in two weeks.

**Public Garage**, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Elwood Egolf, Main street, Royersford, Pa. Concrete, frame and metal, 1 story, 20x50 feet, composition roof, concrete floors, metal lath, steam heat, electric light, metal sash and skylights, gasoline tanks, air tank. Plans in progress. Owner will take bids.

**Hotel (alts. and add.)**, Carbondale, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owner, Samuel Lotzie, 18 River street, Carbondale, Pa. Brick, 4 stories. Plans in progress.

**Residence**, Park street, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, J. E. Parrish, care of architect. Frame and stucco, 2½ stories, 36x45 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light. Plans in progress.

**Residences (38)**, Norristown, Pa. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick and stucco, 2 and 2½ stories, 16x40 feet, slag, slate and Spanish tile roof, hardwood floors, 1-pipe steam heat, electric light, tile work. Plans completed.

**Telephone Exchange Building**, 132-34 North Duke street, Lancaster, Pa. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., care of T. H. Griest, Southeast Corner Vine and Broad streets, Philadelphia. Brick and stone, 4 stories. Plans in progress.

**Sales and Service Building**, Bustleton, Pa. Architect, Christian H. Fries, 8235 D st., Fox Chase, Philadelphia. Owners, R. A. Erwin Motor Co., 1537 Oxford Pike, Philadelphia. Brick, concrete, cut stone, castone, steel, 1 story, 189x80 feet, slag and asbestos roof, composition and cement floors, hollow tile, waterproofing, iron work, kalamein doors, galvanized iron and rolled steel sash and skylights. Architect taking revised bids due as soon as possible.

**Building (alts. and add.)**, Kingston, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, 2 stories and basement, 151x30 feet, slag roof, cement floors, hollow tile, waterproofing and dampproofing, steam heat, electric light, metal lath, marble work, sheet metal sash, hollow steel doors, bond, kitchen equipment. Architect taking bids due November 6th.

**South Office Building**, Harrisburg, Pa. Architect, Arnold W. Brunner, 101 Park avenue, New York. Owners, Department of Property and Supplies, Berkley H. Boyd, secretary, Harrisburg, Pa. Heating and ventilating, refrigerating systems, bronze revolving doors. Owners taking bids due November 15th at 11 A. M.

**Cottage**, Pocono Pines, Pa., \$10,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame and stucco, 2½ stories, 32x44 feet, slate roof, pine floors, electric light. Architects taking bids due as soon as possible.

**School**, Greensburg, Pa. Architects, M. E. Kressley Co., 13 North Fourth street, Harrisburg, Pa. Owners, Greensburg School Board, Mary M. Peoples, secretary, Greensburg, Pa. Brick, steel, concrete, 2 and 3 stories, 316x189

feet, tile roof, composition floors (heating, plumbing, ventilating and electric reserved), metal lath, safety treads, rolled steel skylights. Owners ready for bids.

**Store and Loft Building**, Carbondale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, F. P. Kelly, Main and Seventh streets, Carbondale, Pa. Brick and steel, 3 stories, 54x105 feet, slag roof, reinforced concrete floors, steam heat, electric light, rolled steel sash, kalamein doors, iron stairs. Owner and architect ready for bids.

**Residences (4), Garages (4)**, Rosemont, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 25x38 feet, 36x42 feet, 31x46 feet, 26x34 feet, wing 16x18 feet, vapor vacuum heating, electric lighting, tile work, shingle roof, hardwood floors. Architect ready for sub-bids.

**School, Gymnasium and Auditorium**, Mt. Carmel, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, School Board of Mt. Carmel Township, William Hollister, secretary, Mt. Carmel, Pa. Frame and steel, 2 stories and basement, 123x120 feet, slag roof, pine floors, hollow tile, safety treads, roof ventilators, waterproofing (heating, plumbing, electric and ventilators reserved), tile work, skylights, bond, iron stairs. Low bidder: E. R. Bastress, Mt. Carmel, Pa., \$122,700.

**School**, Palmerton, Pa. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owners, Palmerton School Board, care of R. B. Rosenberry, Palmerton, Pa. Owners taking bids due November 9th (note extension).

## Pennsylvania Contracts Awarded

**Residence (alts.)**, Ardmore, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Mrs. C. E. Hoag, care of architect. Plumbing, plastering, painting and glazing, tile work, carpentry and mill work. Contract awarded Milton W. Young, 2037 North Sixty-third street, Philadelphia.

**Interior Finish South Office Building**, Harrisburg, Pa., \$629,667. Architect, Arnold H. Brunner, 101 Park avenue, New York City. Owners, Department of Property & Supplies, B. H. Boyd, secretary, Harrisburg, Pa. Contract awarded to C. W. Strayer, Market Square, Harrisburg, \$629,667. Plumbing awarded to Herre Brothers, 419 Vaughn street, Harrisburg, \$55,200. Electric awarded to H. P. Foley Co., Washington, D. C., \$56,415.12.

**Mill Building**, Lansdale, Pa. Architect, private plans. Owners, Norristown Hosiery Co., Norristown, Pa. Reinforced concrete, 3 stories, 50x175 feet, slag roof, concrete floors, electric light, steam heat. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

**Factory Building**, Crescentville, Pa. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue, Philadelphia. Brick and steel, 1 and 2 stories, 188x63 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

**Rectory**, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Sts. Simon's and Jude's Parish, Rev. E. Stapleton, Bethlehem, Pa. Brick, 3 stories, 37x76 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

**Church**, Scranton, Pa., \$90,000. Architect, V. Russoniello, Scranton Life Building, Scranton, Pa. Owners, St. Lucy's Roman Catholic Church, Rev. V. Gurisatti, Tenth avenue and Scranton street, Scranton, Pa. Brick and stone, 1 story, 66x120 feet, tile roof, hardwood floors (heating and electric work reserved), tile work, roof ventilators. Contract awarded to L. Caputo, 1213 South Main avenue, Scranton, Pa.

**Residence (alts. into church)**, Royersford, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sacred Heart Roman Catholic Church, care of Rev. C. F. McCarron, Royersford. Brick work, steel and iron work (plumbing, heating, electric reserved), slag roof, carpentry and mill work, pine floors, painting and glazing, plastering. Contract awarded Herman Sattler, Quakertown, Pa.

**Apartment**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, L. K. Collmann, care of architects. Stucco, 3 stories, 38x75 feet, slag roof, pine floors, steam heat, electric light, tile work. Contract awarded to A. Manganiello, West Eighth street, Wyoming, Pa.

**Residence**, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owner, I. Blum, 19 East Jackson street, Wilkes-Barre, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre.

**Store and Offices**, Wilkes-Barre, Pa. Architect, H. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, care of architect. Brick, steel, 3 stories, 21x221 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights. Contract awarded to A. D. Thomas, 370 South Main street, Wilkes-Barre.

**Residence**, Cynwyd, Pa. Architect, private plans. Owner, John M. Gessler, Thirty-ninth and Baltimore avenue, Philadelphia. Hollow tile, stucco, stone, 2 stories, 20x40 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, plastering. Contract awarded Bencker Realty Co., Upper Darby, Pa.

**Residences (24)**, New Holland avenue, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, F. B. Trissler, 405 North Duke street, Philadelphia. Brick, cinder block, 2 stories, 20x28 feet, composition roof, hot air heat, electric light. Contract awarded to Herman Wohlson, Woolworth Building, Lancaster.

**Residence (alts.)**, Carlisle, Pa., \$25,000. Architects, Starr & Johnson, Spooner Building, Harrisburg, Pa. Owner, Ralph Hays, Carlisle, Pa. Brick, general interior and exterior alterations, vapor heat, electric light, hardwood floors, tile work, new partitions. Contract awarded to Hominger Brothers, Carlisle, Pa.

**Bridge**, No. 8-12, North of Manayunk, Pa. Architect, private plans. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Concrete and steel, 10-foot box. Contract awarded to O'Rourke Brothers, 430 Walnut street, Philadelphia. Waterproofing awarded to Martin & Broen, 43 South Seventeenth street, Philadelphia.

## New Jersey Construction News

**School (add.)**, Lindenwold, Camden County, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, School Board, George W. Marbery, secretary, Lindenwold, N. J. Brick, 1 story, 4 rooms, slag



roof, pine and concrete floors, metal ceilings (heating, plumbing and electric work reserved). Plans in progress.

**School (add.),** Somerdale, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, School Board, George W. Marbery, secretary, Lindenwold, N. J. Brick, 1 story, 4 rooms, slag roof, pine and concrete floors, metal ceilings (heating, plumbing and electric work reserved). Plans in progress.

**Manufacturing Plant,** Salem, N. J. Architects, William Steele & Son Co., 219 North Broad street, Philadelphia. Owners, Campbell Soup Co., J. T. Dorrance, president, Camden, N. J. Concrete and brick. Preliminary plans in progress. Too early for details.

**Church,** Ocean City, N. J. Architect, Joseph Van G. Hoffecker, 803 Eighth avenue, Ocean City. Owners, First Baptist Church, Ocean City, N. J. Brick, east stone, steel, 105x61 feet, Carey roof on concrete tile, cement and yellow pine floors, safety treads, metal ceilings, waterproofing, dampproofing, metal lath, tile and marble work. Architect taking bids due November 24th.

**Bungalow,** Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, H. Staats, 814 North Front street, Camden, N. J. Cinder block, 1½ stories, 28x52 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects ready for bids due November 5th.

## New Jersey Contracts Awarded

**North Wildwood School,** North Wildwood, N. J. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, School Board, H. D. Akarman, North Wildwood, N. J. Brick, steel, cut stone, 3 and 2 stories, 164x36 feet, wing 81x52 feet, asbestos built-up roof, cement and maple floors (heating, electric and plumbing reserved), metal lath, tile and marble work, rolled steel sash, hollow metal doors, bond, iron work and stairs, safety treads, hollow tile. Contract awarded Sherman Sharp, Cape May, N. J., \$88,787. Plumbing and heating, R. J. Johnson, Ocean City, N. J. All bids rejected on electric work. New bids due November 6th.

**Yard Service Building,** Camden Terminal, Camden, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading, Reading Terminal, Philadelphia. Brick, steel, 1 story, 13x89 feet, built-up asbestos roof, asphalt floors, electric light, hot water heat, bond, iron work. Contract awarded Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia.

## Miscellaneous Construction News

**Hall of Chemistry,** Morgantown, W. Va. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, University of West Virginia, James S. Lakin, Charleston, W. Va. Plans completed. Owners will be ready for bids in one week.

**Hospital Building,** Maggie, W. Va. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, State Board of Control, Maggie, W. Va. Brick, Indiana limestone, concrete, steel, granite, 3 stories and basement, 217x46 feet, slag roof, cement, composition, tile floors, elevators, metal window guards, terra cotta, tile, iron work and stairs, kalamein doors (heating, ventilating plant, plumbing and electric reserved). Owner taking bids due November 30th.

**Memorial Library,** Newark, Delaware. Architects, Day & Klauder, Franklin Bank

Building, Philadelphia. Owners, Delaware School Auxiliary Association, Dupont Building, Wilmington, Del. Brick, stone, steel, concrete, 2 stories and basement, 83x188 feet, slate and slag roof, marble and linoleum floors, central heating, electric lighting. Owners taking sub-bids.

## WINTER-BUILT CONCRETE *Economy of Winter Work*

A distinct advantage is often gained by carrying on structural concrete work in the winter months. Construction work begun in the late summer or early fall may safely be continued throughout the winter. Builders and prospective owners need not hesitate to start construction during this period regardless of weather conditions.

Contractors have found that the cost of winter construction is from 3 to 10 per cent. greater than the same work would cost in summer, but certain advantages of winter construction frequently offset a part or even all of the additional cost so that the net results may prove an actual saving in construction. The material for the work can often be supplied in winter to the best advantage. Labor is more abundant and efficient and the project can be manned with the best of the labor market. There is also the important additional advantage to the owner of having the building ready for occupancy at an earlier date, as explained more fully in the paragraphs immediately following.

### *Earlier Use of Structure*

Frequently it is imperative to have a structure completed and ready for use at the earliest possible date. Schools, residences, apartment houses, office buildings and hotels are usually needed by a certain date. Earlier occupancy of such structures is of prime importance also from the investment standpoint.

Money provided for building construction earns nothing for the borrower until it is represented as an investment in a completed structure, either rented or occupied by the business for which it is intended. It is often penny-wise and pound-foolish to delay the construction of a needed concrete building because of cold weather, for the extra cost of construction in winter would often be more than offset by the interest saved on the money provided for its construction. The bonus or royalty often paid for the completion of a building before a specified time is tangible evidence of the value placed upon early occupancy by large corporations.

### *Fundamentals of Cold Weather Concreting*

In order to place concrete successfully in cold weather, it is necessary to follow the methods and observe the precautions outlined here. The fundamentals of these materials are easily comprehended by an

understanding of the action of concrete in hardening.

Hardening of concrete is not a process of drying out, as some people suppose, but is a chemical reaction between the cement and the water used in the mixing. Two things are necessary for proper hardening—namely, warmth and moisture.

Low temperatures will retard the hardening of concrete, extreme cold will prevent it altogether. Since water is necessary for the chemical action of hardening, evaporation of the water used in mixing the concrete must be prevented. This is often done by keeping the surface covered with wet sand, saw dust or burlap. As the temperature is lowered and the moisture content is reduced, the gain in strength and the entire hardening process become much slower and practically cease when the temperature of the water used in mixing falls to the freezing point.

There is no certainty that newly placed concrete that has been frozen even once, and has then been thawed out and protected from further freezing until final hardening has taken place, will ever attain its full strength. The only safe practice is to protect freshly placed concrete as soon as possible, before it has time to freeze. If alternate freezing and thawing occur several times, the concrete will be seriously injured and may have to be removed. Concrete that will be subjected to abrasion, as in floors and pavements, should under no circumstances be allowed to freeze at all. The exact period that may be allowed to elapse between placing concrete and subjecting it to freezing temperature cannot be definitely stated because of the influence of unknown variations in temperatures and other conditions. Experience shows that this period should never be less than 48 hours, and if the outside temperature averages below freezing, 3 to 5 days should be allowed.

### *Methods for Winter Work Heating Materials*

Since warmth and moisture are required for the proper hardening of concrete, cold weather work should be planned with those necessities in view. Both the mixing water and the aggregates should be heated. The cement forms but a small portion of the concrete and need not be heated, but it is well to keep it in a warm place for a few hours before it is used.

The nearer the temperature of the water is to the boiling point the better will be the results because it will take longer to dissipate the heat and cool the mixture. There are several types of water heaters that can be used, but the most common method of heating is to pass steam into the water tank. The concrete should be mixed with the least



amount of water practicable to produce a workable, plastic mixture. An excess of water must be carefully avoided.

Many methods are used for heating aggregates. A simple method is to use a length of iron pipe, an old boiler, or any metal cylinder over which the sand, broken stone or pebbles can be piled, and in which a fire can be built. Care must be taken to heat the fine and coarse aggregates separately in order to avoid premixing them in wrong proportions. As this method entails rehandling the aggregate, and as the aggregates nearest the heater may be affected by excessive heat, the use of steam pipes is generally preferred.

Steam heating is a more expensive method and requires a steam boiler, but on large jobs this method is usually advantageous because the steam may also be used for other purposes. A practical method is to use a perforated steam pipe with a pointed end which can be worked into the piles of aggregates. To reduce loss of heat the piles of aggregates should be covered with tarpaulins.

If the materials are heated as above outlined, and the concrete is deposited immediately after mixing, its temperature when placed in the forms will be around 80 degrees F. and if care is taken to prevent too rapid loss of this contained heat, the concrete will harden properly. The early stages of hardening may be even more rapid than under ordinary conditions.

#### *Heating the Forms*

The forms must be free from snow, ice and frost, and should also, if possible, be reasonably warm, especially in the case of metal forms, which will absorb heat from the concrete rapidly. Live steam is an effective agent for cleaning ice and snow from the forms, and warming them. It should be used just before the concrete is placed.

#### *Protection and Supplying Heat While Hardening*

A rapid loss of contained heat must be prevented. Protect the concrete while hardening so as to maintain the warm, moist condition essential for the rapid development of strength. There are many methods of doing this: the most common is an enclosure of canvas or tarpaulins. In mild weather this alone may be sufficient, but when the temperature drops below the freezing point, some means should be provided for heating the enclosure. Steam escaping from perforated steam pipes around the concrete will give the best results, because the steam saturates the air and prevents evaporation of moisture from the concrete.

Coke salamanders or stoves are often used when steam is not available to supply warmth to the enclosure, but large pans of water should be placed over them in order to provide as much moisture in

the air as possible. Care should be taken not to have these stoves or salamanders so close to the concrete as to dry it out in spots. An even temperature of at least 60 degrees F. should be maintained at all times in all parts of the enclosure. To maintain this temperature within a properly housed enclosure during cold weather, with good coke properly handled, one salamander will be required for every 300 to 500 square feet of floor area.

The most common practice is to build inclosures of tarpaulins, overlapped so as to prevent rapid escape of heat, about two stories being inclosed at one time. Undoubtedly a better method was the one followed in the winter of 1922-1923 in the construction of the Keenan Hotel, a 14-story reinforced concrete building in For Wayne, Ind. Five stories were inclosed at one time. This prolonged the length of time during which freshly placed concrete was kept warm and resulted in complete hardening before the protection was removed.

A more substantial form of protection is the complete wooden inclosure. The Majestic Building in Milwaukee, was built under a complete inclosure of tarpaulins supported on frame-work. Complete inclosures necessarily cost more than temporary ones that protect only a few stories at a time. Their great advantage, however, consists in the fact that they protect the workmen of all trades and speed up the work from beginning to end. Furthermore, when once built they require no shifting.

The complete inclosure idea was followed in the construction of the three-span reinforced concrete arch bridge over the Little Goose River, in Wyoming. A large tent covered the entire bridge site and permitted construction during severe winter weather when the stream was solidly frozen over. The cold weather, in fact, eliminated trouble from running water and actually speeded up the progress of the work. Fires were kept going in stoves with smoke outlets extended through the top of the tent. During the placing of concrete a heavy snow storm, followed by severe cold that lasted several days, tested the effectiveness of the tent. The protection proved equal to the emergency.

For retaining walls and similar structures a light roofing paper envelope placed outside the forms with steam pipes at the bottom has proved satisfactory.

#### *Protective Coverings*

When it is warm during the day with a temperature drop close to the freezing point at night, floors, pavements and foundations are often protected by covering with straw, hay or other material with satisfactory results, but such covering should not be relied upon during protracted low temperatures.

Even though the outdoor tempera-

ture may not drop to freezing, protection is necessary to prevent the concrete from losing the heat introduced by heating the materials, and insure proper hardening. At low temperatures the heat developed by the chemical reaction of the cement and water is too small to be safely relied upon except in large masses underground. Even in those cases the materials should be heated and the surface protected.

Thin structural members and floors have such a large surface area in proportion to their size that the heat within the concrete is dissipated rapidly, and therefore protection must be provided. Recent inspection of several concrete floors placed during the winter of 1922-1923 disclosed the fact that the top surface was inadequately protected after being placed. On one floor in particular it is known that the top surface was placed during cold weather and no protection whatever was provided. It was permitted to freeze almost immediately after it was placed, and it is probable that it froze and thawed several times before it hardened. The result was an unsatisfactory wearing course which in many places must be removed and replaced. Work of this kind should be protected with canvas, supported slightly above the surface, and with live steam forced under the canvas. The steam has the excellent characteristic of providing both heat and moisture, both essential in obtaining the best results in the hardening of concrete.

#### *Use of Salt or Calcium Chloride*

The practice of adding "anti-freezing" compounds such as sodium chloride (common salt) or calcium chloride solutions to the concrete mixture is not generally recommended. Under no circumstances should they be depended upon to prevent freezing below 22 degrees Fahr., and they should never be considered substitutes for protection and heating.

Calcium chloride in quantity not exceeding 4 per cent. by weight, of the mixing water is a better anti-freezing agent than common salt. It accelerates the hardening of concrete to some extent, while salt retards hardening. Salt has a tendency to corrode reinforcing steel, and may cause efflorescence, which is unsightly on exposed surfaces.

Even if anti-freezing solutions are used, the aggregates and mixing water should be heated to remove ice or frost.

#### *Application of Load*

Too early removal of forms is always to be guarded against even during construction in favorable weather, and great caution should be observed in placing loads upon cold weather concrete. Especially is this true of walls, roofs and floors above ground, which carry loads other than their own weight.

Before removing forms the concrete should be examined to see that it has



properly hardened and not frozen. A reliable test is to apply heat to the surface by means of a blow torch or a jet of hot water or steam against it. Frozen concrete will be disclosed by softening as it thaws out, but if properly hardened, the concrete will be unaffected by the application of heat.—*Portland Cement Association.*

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## LONG, LONG AGO

Building a castle in the Middle Ages seems to have been a lark compared with building a six-room house today. A lark, that is, for the builder. Strikes were known, however, at that comparatively early day, but they were few and far between. From 1150 A. D. on, paid laborers, rather than monks, constructed the cathedrals and castles, receiving wages that—based on the purchasing power of a dollar today in the United States—would approximate from \$1 to \$2.50 a day. The Master Builders received from \$3 to \$4 a day, depending on the locality and the disposition of their employers. In the 15th century, at the building of St. George's at Windsor, the architect is reported to have received the sum of \$6 a day for his work.

One of the earliest recorded strikes is described in the biography of St. Stephen

of Obzine, who was directing the work on a great Church of utmost importance. The sainted man and the Cistercians in his charge were vegetarians, and they insisted that the paid workmen should subsist on a vegetarian diet also. For a while all went well; but then the laborers clandestinely bought a pig, roasted it, ate half, and hid the remainder. St. Stephen, on learning of the outrage, called his elders together and asked them their advice as to what should be done. They counseled leniency, since the men had never taken the vows of the order, but St. Stephen was firm. The workmen intimated that if they could not have meat when they desired, they would not work. St. Stephen responded by threatening to hire other men in their places—an early example of lockout. After some argument the men again took up their tools, and subsisted on the diet described completing the work "in good order." With all the building that was going on at this period of history, there was no shortage of labor, and discipline was very strict. Men traveled from place to place with their families, living in the squalid inns of the day; having fresh meat to eat only when it was killed in the neighborhood or when the weather was cold enough to preserve it. In Willis and Clark's history of the University of Cambridge there is the statement that "discipline was very strict and system of fines was imposed, by which men who misbehaved themselves lost a whole day, or a half day, for each misdemeanor. A few of these may be cited: 'for he lost a showell'; 'for late coming'; 'for telling of tales'; 'for childing'; 'for fighting'—(half day); 'for breaking of shovel'; 'for playing'—(whole day); 'for keeping of the hole owre'—(half day). This was probably the dinner hour, and the strict observance of it by the men seems to have been a grievance with the clerk of the works, for Robert Goodgrome is fined 'for he would kepe his ouris and never go to werke till the clocke smyte.'" Robert evidently lived about a thousand years before his time.

Even the professional men of that day often had hardships to bear. This was particularly true of an architect named Lanfred, retained by a certain Countess of the Bayeux and Ivry. It is written in this connection that "Men say that the countess aforesaid caused the castle to be built by the architect Lanfred, whom she created Master of the Works, after the building of the tower of Pithiviers, a man whose skill was praised far beyond that of any other artificer of his time in France. Then, when Lanfred had completed the castle of Ivry with much labor and at great cost, she caused him to be beheaded lest he should build another equal to it elsewhere."—*Commerce and Finance.*



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Entered at the Philadelphia Post Office as Second-Class Matter

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November 7, 1923

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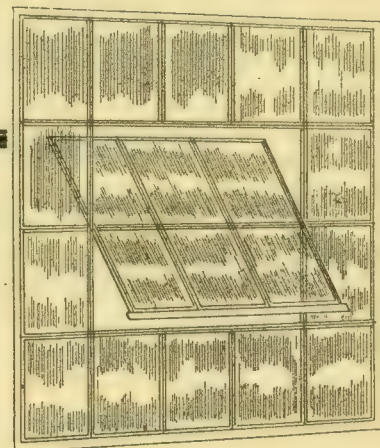
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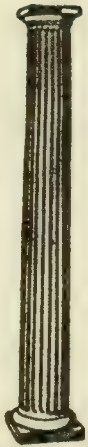
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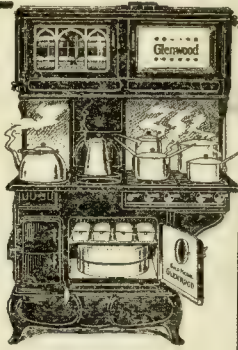


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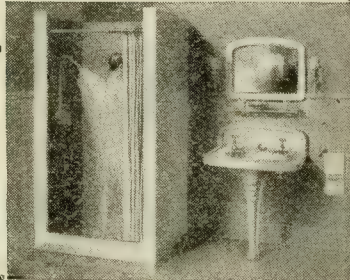
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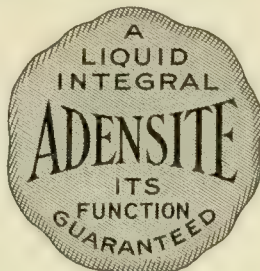
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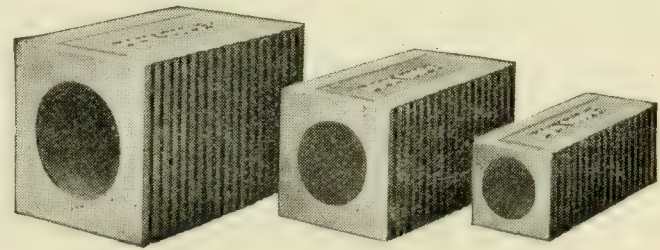
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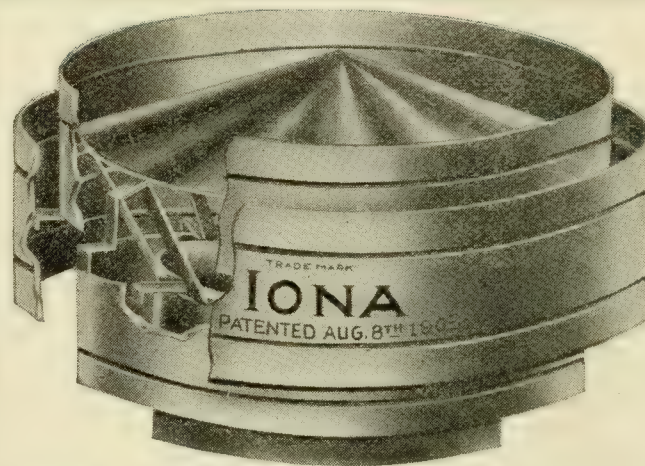
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 45

PHILADELPHIA  
November 7, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President

H. A. Lang.....Vice-President

Joseph M. DeLone..... Secretary and Treasurer

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## As The Editor Sees It



### STATEMENT BY FRANKLIN D. ROOSEVELT AS PRESIDENT OF THE AMERICAN CON- STRUCTION COUNCIL

Urging all those interested in building projects in the near future to undertake such work so far as possible at an early date in order to take advantage of the usual slackening of demand for materials and labor during the winter months and in this way avoid a possible building crisis in the Spring, the American Construction Council recently made public through its President, Franklin D. Roosevelt, the resolutions adopted at the recent annual meeting of the Council in regard to the condition of the building industry generally. In addition Mr. Roosevelt announced the particular program of action for the coming year which was decided upon at that time, subject to the approval of the Executive Committee, which includes very definite aid to be rendered by the Council in securing apprentices in certain of the building trades, and the establishment, through the support of the Council, of local so-called "building congresses" throughout the United States modeled on those which have proved so successful in New York City, Boston, Philadelphia, and Portland. Mr. Roosevelt, in giving out the statement said:

"The American Construction Council, considering the fact that it is entering an entirely new field and embodies an en-

tirely new idea in associations, has made, in my judgment, splendid progress during the past year. I feel that its appeal for support from the public and from those associated in the building industries has been well justified by the work it has already done and will be increasingly justified in the future. I have devoted much time in the past year to the affairs of the Council, the work of which has grown very greatly, and the action of the Council at its late meeting in appointing Mr. D. Knickerbacker Boyd, President of the Philadelphia Building Congress as Executive Vice-President, and Mr. Dwight L. Hoopingarner, formerly Executive Manager of the Cleveland Trades Employers' Association, as Executive Secretary, gives me and the Executive Committee the needed able support of competent men of national standing to take up the additional burdens which are constantly falling on our shoulders. The annual meeting brought a surprisingly large attendance from all over the country and the discussions which followed covered practically all problems in the building industry.

"As the main effort of the Council is to bring together for the first time all persons or organizations interested in construction or the manufacture or supply of materials for construction, together with the labor that enters into construction, and to act for them in bringing to the attention of the public what is

needed to keep on a fair basis the costs of construction in this country, it was the unanimous opinion of those present that local get-together associations in practically every state in the United States is an essential step in this work. The National Congress of Building and Construction Industries, under the able leadership of its President, Robert D. Kahn, of New York City, had already inaugurated this movement and the practical method decided on by the Council to secure this local co-operation was embodied in a resolution by which the American Construction Council not only pledged itself to support and aid the creation of local building congresses in every possible way, but authorized the Executive Committee to expend from such funds as might be secured, money up to \$25,000 in assisting in this work. By this co-operation the American Construction Council

will secure local associations of those interested in the construction industry and the local building congress will find in the American Construction Council a national organization which will act as a medium of interchange of ideas between them.

"It was also brought out that there is a real scarcity of skilled labor in several of the building trades which made it impossible to secure workmen in many localities during peak periods at any price whatever. In other trades, the Council has already discovered a local shortage

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in one place and a local surplus in another. In such cases, rather than encourage new apprentices in the trade, the efforts of the Council will be devoted to adjusting these conditions. One of the most immediate and effective ways of remedying these conditions is of course securing young men to enter the trades where there is a real national shortage. Accordingly the Council has by resolution undertaken as part of its program for the year the encouragement of the establishment and strengthening of schools for apprentices throughout the country and the securing of desirable pupils therefor in every way that lies in its power. For this purpose a Committee on Apprenticeship, Vocational Guidance, and Craftsmanship, of which Mr. F. W. Walker, Secretary of the Associated Tile Manufacturers of Beaver Falls, Pa., is chairman, was directed to co-operate with employees' and employers' organizations and with educational bodies, local and national, in providing for apprenticeship training. As an additional step, the Council having received a number of communications from young men desirous of entering a trade but not knowing how or where they could secure the technical education, has decided to use its good offices in helping young men desirous of taking up a trade to find a vocational school where they can secure the educational knowledge necessary to become apprentices therein. I am accordingly directed by the Executive Committee which has just held a meeting at my office to request the press to announce that any young man desirous of securing a vocational education in the building trades without knowledge of how to go about it will upon application to Dwight L. Hoopinger, Executive Secretary of the American Construction Council, 28 West 44th Street, New York City, receive the assistance of the Council in finding a school adapted to his requirements, and that the Council will also gladly hear from all vocational schools or classes in vocational training of public schools stating their requirements for admission and such other details that will enable the Council to refer applicants in their vicinity to them for instruction. The obvious danger of overmanning trades which have already plenty of apprentices has been recognized by the Council and the Committee on Apprenticeship, in addition to the information already on hand regarding several trades, will, under the resolution of the Council, carefully ascertain that there is a real shortage in a trade before recommending would-be apprentices to take up such a trade as their profession.

"A national crisis in the building industry led the American Construction Council to issue a statement in the Spring urging that for a few months unnecessary building be suspended. The result

of this announcement, I think, did much to prevent a possible very serious situation. A careful study of the present conditions has now been completed by experts of the Council and the following statement was prepared for issuance to the public:

"In the Spring of this year the American Construction Council advised the public of the desirability of curtailing construction work so that its volume would not be so great that the labor and material available could not possibly carry through. Had the larger volume been undertaken it would have resulted in raising the cost of construction to prohibitive prices which would have caused a break such as occurred in 1920. This happily has been averted. The result of this advice, together with the co-operation of others, was that a large volume of construction work then under contemplation was not undertaken and the prices of construction did not rise to the breaking point.

"Having in mind the great desirability for a longer working year in the construction industry, the benefits of which could accrue to the public, the contractors, the manufacturers, the transportation companies, and the various trades, and which would be helpful in reducing the seasonal peaks of construction activities which are conducive to increased costs, and further recognizing the general tendency at this time of the year to defer building projects until Spring, the American Construction Council suggests that cognizances be taken of the following:

1. "Maintenance, repairs, and alterations of existing structures, through long custom rather than through any other reason are carried on during that portion of the year when new construction is most active. It will be in the interests of all concerned to do such maintenance work as is possible during the closed season and now is the time for owners and managers to give this full consideration.

2. "Miscellaneous new construction that should not take more than four to five months to complete can ordinarily be undertaken in the Fall and carried on under more advantageous conditions which will result in satisfaction all around, at the same time giving continuous employment to workers who might otherwise be idle.

3. "There appears to be a continuing demand for construction of large projects. It is perhaps too early to predict that this will result in an abnormal demand for labor and materials next Spring, yet there seems to be such a trend. Therefore, until the season is further advanced and this can be determined more definitely, the situation in many localities suggests caution as indicated in the report of the American Construction Council

(Continued on Page 718)

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**Sales and Service Building**, 4732 Frankford avenue, Philadelphia. Architect, H. Child Hodgens, 130 South Fifteenth street, Philadelphia. Owner, Wm. Freihofer, care of architect. Brick, cutstone, steel, 3 stories, 60x75 feet, slag roof, cement floors, steam heat, electric lighting, metal lath, tile and marble work, terra cotta. Architect taking bids due November 14th, noon.

**Office Building**, Fifth and Walnut streets, Philadelphia. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Independence Ind. Co., Third and Walnut streets, Philadelphia. Brick, steel, concrete, 8 stories, 180x100 feet, steam heat, electric light, metal lath, tile and marble work reinforced concrete floors, elevators. Plans in progress. Details undecided.

**Bank**, Fifth and Wyoming avenue, Philadelphia. Architect, not selected. Owners, Wyoming Avenue Bank & Trust Co., care of H. J. Sautter, 608 West Olney avenue. Stone, 1 story. Owners will select architect in one month.

**Church and Auditorium**, Fifty-eighth and Springfield avenue, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Bishop Berry Methodist Episcopal Church, Rev. R. J. Garber, 8511 Springfield avenue, Philadelphia. Plans in progress.

**Store Building (alts.)**, 122 South Thirteenth street, Philadelphia. Architect, S. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, J. Liehterman, 137 South Thirteenth street, Philadelphia. General alterations. Plans in progress. Architect will be ready for bids in ten days.

**Public Garage**, location withheld. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, name withheld. Brick, 1 story, 62x95 feet. Plans in progress.

**Church**, Fifteenth and Lombard streets, Philadelphia. Architect, G. E. Savage, Witherspoon Building, Philadelphia. Owners, Wesley African Methodist Episcopal Church, Rev. H. J. Tillman, 1911 Bainbridge street, Philadelphia. Stone, 1 story, 60x100 feet. Plans in progress.

**Residence**, East Gates street, Roxborough, Pa. Architect, R. J. Lawrence, 525 East Gates street, Roxborough, Pa. Owner, James

Juelett, care of architect. Brick, 2½ stories, 28x38 feet, slate roof, hardwood and pine floors, vacuum heat, electric light. Architect will take bids January, 1924.

**Alterations**, 6621 North Eleventh street, Philadelphia. Architect, Edwin Rothschild, 1420 Chestnut street, Philadelphia. Owner, Leon Rosenblatt, 40 North Sixth street, Philadelphia. Owner taking sub-bids.

**Building**, 1721-29 Chestnut street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Heymann & Bro., care of architect. Brick, cut stone, granite, 2 stories, 104x115 feet, slag roof, maple, oak, cement floors, electric light, steam heating, metal lath, tile work, terra cotta, ornamental iron work. Architect taking bids November 8th.

**Apartment and Store Building (alts. and add.)**, 210 West Cheltenham avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Architect taking bids due November 9th.

**Club House**, 1915 South Broad street, Philadelphia. Architect, M. Capabianco, 721 Walnut street, Philadelphia. Owner, Circolo Leonardo Da Vinci, on premises. Brick, 3 stories, 33x20 feet, slag roof, hardwood floors, hot water heat, electric light, plumbing. Architect will take bids.

**Store Building (alts.)**, 314 South Broad street, Philadelphia. Architect, Max Bernhardt, 721 Walnut street, Philadelphia. Owners, Kushen & Katzman, care of architect. Brick, cut stone, iron and steel, carpentry and mill work, hardware, plastering, tile and marble work, painting and glazing, plumbing. Architect taking bids due as soon as possible.

**Alterations**, Fifteenth and Locust streets, Philadelphia. Architects, Weber & Wurster, Morris Building, Philadelphia. Owner, Albert Greenfield, care of architect. Architect taking bids due November 12th.

**Francis Read School**, Eleventh and Moore streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due November 8th.

**Residence (alts.)**, 332 Manheim street, Philadelphia. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, A. Slattey, 5051 Wayne avenue, Phila-

delphia. Architect taking bids due November 8th.

**Library**, Parkway, Philadelphia. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Buildings, Philadelphia. Plumbing, grading, refrigerator and vacuum cleaner systems, heating and ventilating. Owners taking bids due November 21st, Room 216, City Hall.

**Apartment House**, Bryn Mawr avenue and City Line, Philadelphia. Architects, Stetler & Deysher, 1015 Chestnut street, Philadelphia. Owners, Solomon Brothers, Ninth and Walnut streets, Philadelphia. Brick, stone, terra cotta, 3 stories, 100x280 feet, vapor heat, electric light, metal lath, tile and marble work, dumb waiter, elevators, slag and tile roof, hardwood floors, iron work. Plans in progress.

**Store and Apartment**, Cheltenham avenue near Germantown avenue, Philadelphia. Architect, J. Molitor, Heed Building, Philadelphia. Owner, name withheld. Store (5), apartment (14), brick. Plans in progress. Too early for details.

**Residences (16)**, 5301-31 Lebanon avenue, Philadelphia, \$131,000. Architect, private plans. Owner, Daniel E. Hogan, 6044 Columbia avenue, Philadelphia. Brick, 2 stories, 20x52½ feet, 18x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Garages (2), Stable and Workshop**, North side Duncannon avenue, West of Mascher street, \$11,300. Architect, private plans. Owners, Petri Brothers, on premises. Stone, 1 story, 173x17 feet, slag roof, cement floors, workshop, 1 story, 39x47 feet, stable, brick, 1 story, 20x47 feet, electric lighting. Owners will build.

**Amusement Device**, Woodside Park, Philadelphia, \$10,000. Architect, private plans. Owner, W. H. Higgins, 125 North Paxon street, Philadelphia. Frame. Owner will build.

**Residences (22)**, North side Elmwood avenue, East of Seventy-second street, \$5,000 each. Architect, private plans. Owners, Young & Klaus, 6228 Woodland avenue, Philadelphia. Brick, 2 stories, 18x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Garage**, West side Bellfield avenue, North of High street, \$3,500. Architect, private plans. Owner, Daniel J. Kennedy, 456 Cosgrove street, Philadelphia. Brick, 1 story, 16x32 feet, and 1 story, 25x18 feet, slag roof, cement floors, electric lighting. Owner will build.

**Residences (4)**, North side Borbeck street, West of Castor, \$4,500 each. Architect, private plans. Owner, George Ramsey, 22 Central avenue, Cheltenham, Pa. Frame, 2 stories, 14x40 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (4)**, East side Montague street, South of Benner, \$4,000 each. Architect, pri-

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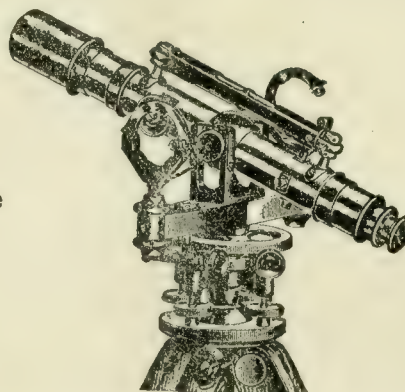
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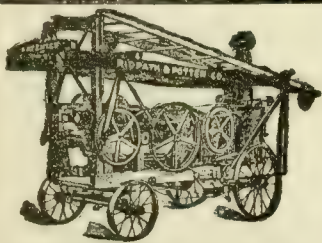
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vate plans. Owner, Louis Dietrich, 3016 Comly street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (2)**, East side Tabor Road, South of Cottman, \$4,000 each. Architect, private plans. Owner, Jacob Gaertner, 7225 Oxford avenue, Philadelphia. Brick and frame, 2 stories, 15½x40 feet, asphalt shingle roof, steam heat, electric light. Owner will build.

**Residence**, South side Naple street, West of Verree avenue, \$4,800. Architect, private plans. Owner, Cecil T. Hodgins, 4610 D street, Philadelphia. Frame, 2 stories, 24x31 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence**, South side Greenway avenue, West of Sixty-seventh street, \$3,500. Architect, private plans. Owner, George A. Fink, 2138 South Sixty-fifth street, Philadelphia.

Brick, 2 stories, 60x18 feet, electric work. Owner will build.

**Residence and Store (alts. and add.)**, Southwest Corner Bouvier and Dickinson streets, Philadelphia, \$2,500. Architect, private plans. Owner, Lewis D. Fio, 1702 Dickinson street, Philadelphia. Brick, 2 stories add., 16x10 feet, general alterations. Owner will build.

**Store and Residence (alts.)**, 748 Bainbridge street, \$2,500. Architect, private plans. Owner, A. Miller, 804 Spring Garden street, Philadelphia. General alterations. Owner will build.

**Garage**, 3030 North Sixth street, Philadelphia, \$2,500. Owner, P. Landolfi, on premises. Stone, 1 story, 50x40 feet, cement floors. Owner will build.

**Garages (2)**, North side Midvale avenue, East of Fox, \$1,500 each. Owners, Johnson & Talley, Post Office Building, Germantown, Philadelphia. Stone, 1 story, 20x20 feet, slate roof, cement floors. Owners will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Rooming House (alts.)**, 1700 North Franklin street, \$10,000. Architect, private plans. Owners, Karfunkle & Fox, on premises. General alterations. Contract awarded to Max Sklar, 628 Pine street, Philadelphia.

**Store and Business Building (alts. and add.)**, Northwest Corner Thirty-first and Berks streets, Philadelphia, \$4,000. Architect, private plans. Owner, B. Potamka, 2000 South Seventh street, Philadelphia. Brick, 1 story add., 16x16 feet, general alterations. Contract awarded to A. Barsky, 3225 Arlington street, Philadelphia.

**Workshop**, 1415 South Broad street (rear), Philadelphia, \$2,000. Architect, private plans. Owner, Regina Nardello, on premises. Brick, 1 story add., 16x30 feet, general alterations. Contract awarded to Dominick Musantono, 1413 Dickinson street.

**Service Station (alts. and add.)**, Brandywine street, East of Broad Philadelphia, \$10,000. Architect, P. S. Tyre, 1509 Arch street, Philadelphia. Owners, Walz Auto Equipment Co., 1343 Brandywine street, Philadelphia. Brick, steel, 2 stories, 59x15 feet, slag roof, cement and pine floors, metal lath, galvanized iron skylights, tin clad doors, bond, floor hardener, waterproofing (plumbing, heating, electric reserved). Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

**Bungalow**, Roxborough, Philadelphia. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, Charles Becht, 3410 Baker street, Manayunk, Philadelphia. Stone, 1½ stories, 28x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded C. F. Hirsch, Conshohocken, Pa.

**Apartments (alts. and add.)**, 4226 Parkside avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Contract awarded C. F. Hirsch, Conshohocken, Pa.

**Garage and Service Station**, 2221-25 North

Broad street, Philadelphia. Architect, Frank tract awarded Edward Canny, 6021 Sansom V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick, concrete, 3 stories, 70x151 feet (heating, plumbing, electric and elevators reserved), slag roof, cement floors, metal lath, tile work, rolled steel sash, galvanized iron skylights, rolled steel sash, galvanized iron skylights, rolled steel doors, bond, iron work, cold water painting. Contract awarded F. V. Warren, 1913 Arch street, Philadelphia.

**Building**, 2106 Spruce street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Leonard Averett, 1016 North Sixth street, Philadelphia. Brick, 1 story, 20x21 feet (plumbing, heating, electric reserved), slag roof, cement and oak floors, plastering, hardware, carpentry and mill work, stone renovating, iron work, metal lath, tile and marble. Contract awarded G. H. Evans, 105 North Thirteenth street, Philadelphia.

**Factory (alts. and add.)**, Southwest Corner Sixteenth and Lehigh avenue, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, Wolf & Lit Co., Broad and Wallace streets, Philadelphia. Brick, elevator shaft, steam heat, elevators, plumbing, interior alterations, painting. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia.

**Alterations**, Northeast Corner Seventh and Chestnut streets, Philadelphia, \$115,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield, Fifteenth and Chestnut streets, Philadelphia. Brick, cut stone, reinforced concrete, cement work, 5 stories, 52x57 feet, slag roof, composition floors, metal lath, tile and marble work, plastering, carpentry and mill work, roof ventilators, painting and glazing, hardware, cold water painting, metal bulks, damp-proofing, architectural terra cotta, iron work, bond, metal and kalamein doors. Contract



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awarded Lam Building Co., 1001 Wood street, Philadelphia.

**Stores (4), Apartments and Garage**, 211 West Cheltenham avenue, Philadelphia, \$23,000. Architect, William F. B. Koelle; Otis Building, Philadelphia. Owner, Irving King, care of architect. Brick, steel, stone, concrete, 3 stories, 80x90 feet, vapor heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal skylights, fire doors, bulks, ornamental iron work and stairs, terra cotta, roof ventilators, elevators, hardwood and composition floors, slag roof. Contract awarded T. S. Fetter, 1829 Filbert street, Philadelphia.

**Residence and Garage**, Fifty-second and Wynnfield avenue, Philadelphia. Architect, Arnold H. Mueller, 901 Walnut street, Philadelphia. Owner, Joseph Matz, 935 Sansom street, Philadelphia. Brick, cut stone, 2½ stories, 27x61 feet, slate roof, mineral, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work. Contract awarded N. Nardy Co., 1713 Sansom street, Philadelphia.

**Building**, 5432-36 Baltimore avenue, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Samuel Knee, 135 South Forty-ninth street, Philadelphia. New front, brick, marble, concrete and tile, 3 stories, slag roof, iron and steel work, galvanized iron skylights, bulk windows (metal, carpentry and mill work, oak floors, plastering, bond, plumbing, hardware, painting and glazing. Contract awarded Charlick & Chapman, 3109 West Dauphin street, Philadelphia.

**Alterations and Addition into Printing Shop**, 121-23 North Eleventh street. Architect, private plans. Owners, Earle & Parris, 40 North Eleventh street, Philadelphia. Brick, iron work, tin roof, carpentry and mill work, steel sash and doors, plastering, plumbing, carpentry and mill work, steel sash and doors, plastering, plumbing, heating alterations (elevators, fire escapes, paperhanging, electric work reserved). Contract awarded F. I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

**Heed Scott Building (alts.)**, 1215 Filbert street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, William Hyman, care of architect. Brick work, plastering, carpentry and mill work, cement work, painting and glazing. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

**Police Station**, Fiftieth and Lancaster avenue, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Department of Public Safety, Bureau of Police, Philadelphia. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia, \$79,463. Heating, C. J. McCarthy, 1723 Sansom street, Philadelphia, \$3,838. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$2,374. Plumbing, John Borden &

Bros., 637 North Nineteenth street, \$6,590.

**Swimming Pool**, Thirty-second and Ridge avenue, Philadelphia. Architect, John P. B. Sinkler, 1211 Chestnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Contract awarded J. B. Kelly, 2315 Walnut street, Philadelphia, \$49,876.

**Swimming Pool**, Hunting Park and Blaine avenues, Philadelphia. Architect, E. Nelson Edwards, 1012 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Contract awarded J. B. Kelly, 2315 Walnut street, Philadelphia, \$54,000.

**Tunnel**, Twenty-third and Spring Garden Streets, Bridge, Philadelphia. Architects, Borie, Trumbauer & Zantinger, 1406 Land Title Building. Owners, Fairmount Park Commission, T. H. Martin, secretary, 127 City Hall. Contract awarded O'Neill Const. Co., 127 East Mermaid Lane, Philadelphia.

**Storage Vault**, Southwest Corner Fifteenth and Chestnut streets, \$100,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Franklin Trust Co., 22 South Fifteenth street, Philadelphia. Steel and reinforced concrete vault. Contract awarded to F. W. Mark Const. Co., Commercial Trust Building.

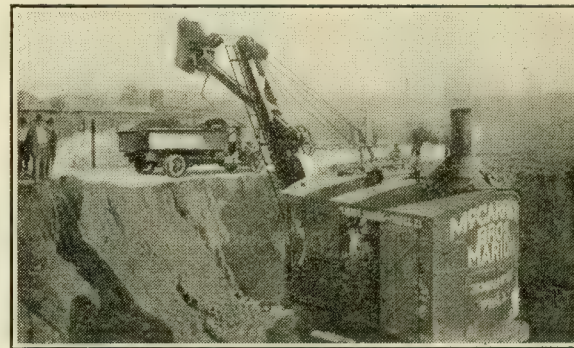
**Alterations**, 1708-14 Chestnut street, Philadelphia. Architect, private plans. Owners, Theo. Presser Co., on premises. Masonry, plastering, structural steel, ornamental iron work, marble and tile work, glazing, carpentry and mill work. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

**Stores (2) (alts.)**, 124 South Eighteenth street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owners, Eddlestein & Bernstein, on premises. Contract awarded P. Savar, 718 Snyder avenue, Philadelphia.

**Alterations**, Northeast Corner Twelfth and Race streets, Philadelphia. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, Jacob Greenspan, 141 South Eleventh street, Philadelphia. Metal bulks, plastering, carpentry and mill work, plate glass. Contract awarded F. Liss & Co., care of owner.

**Mill (alts.)**, Wayne and Berkley streets, Phila., \$10,000. Architect, Eugene S. Powers, 315 South Fifteenth street, Philadelphia. Owners, Orlando Crease Estate, Wayne and Berkley streets, Philadelphia. Brick work, wood beams, carpentry, cast iron columns, cement and concrete work. Contract awarded Stewart Brothers, 2526 North Orkney street, Philadelphia.

**Service Station**, Northwest Corner Thirty-fourth and Brandywine streets, \$4,500. Architect, Sol Kaplan, 10 South Eighteenth



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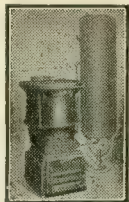
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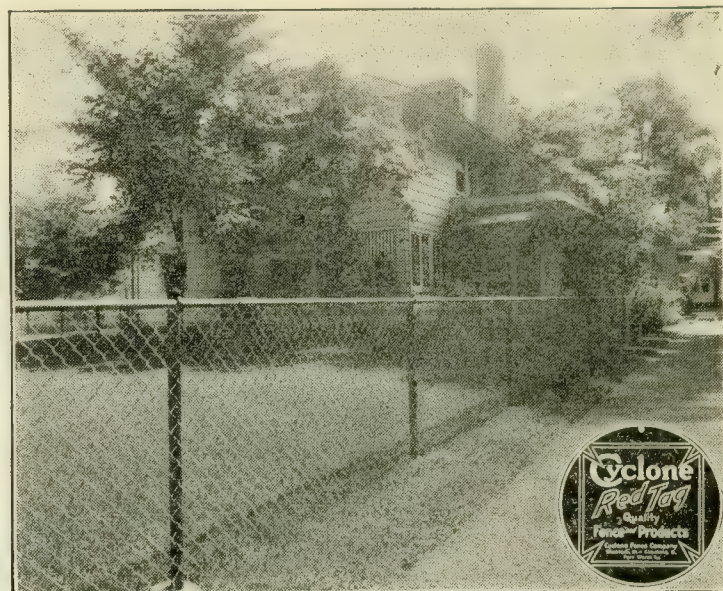
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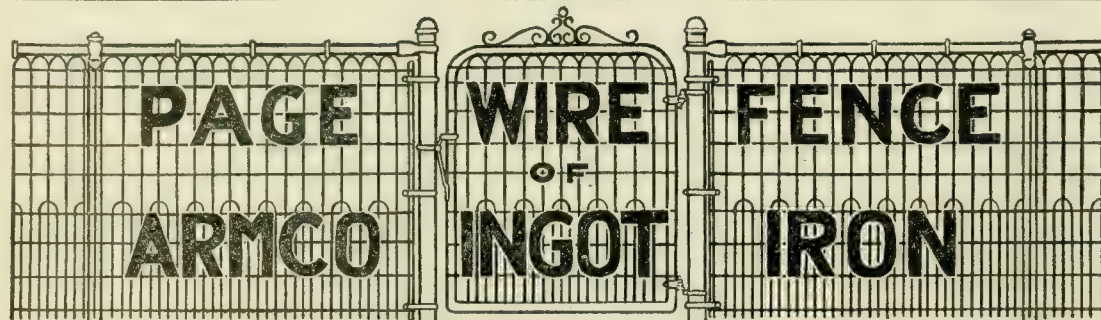
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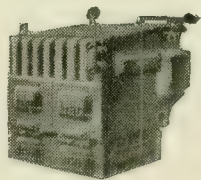
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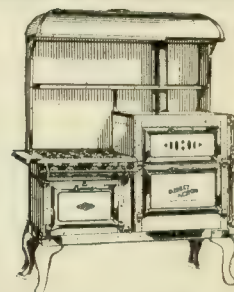
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street, Philadelphia. Owners, Atlantic Refining Co., 216 South Broad street, Philadelphia. Terra cotta, brick, 1 story, 10x15 feet, tile roof, cement floors. Contract awarded to Metzger, Fisher & White, Otis Building, Philadelphia.

**Residence**, North side Washington Lane, East of Anderson, \$10,000. Architect, private plans. Owner, W. L. Sammon, Pittsburgh, Pa. Brick, 2 stories, 25x37 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to E. D. Turner, 227 Buck Road, Bryn Mawr, Pa.

**Residences (2)**, West side Germantown avenue, South of Bells Mills Road, Philadelphia, \$12,000. Owner, Thomas P. Coyne, on premises. Brick, 3 stories, 16x31 feet, and 2 stories, 16x18 feet, slate and tin roof, hot water heat, electric light, hardwood and pine floors. Contract awarded to Joseph T. Phister, 1724 Market street, Philadelphia.

**Store (alts.)**, Northwest Corner Passyunk avenue and Twelfth street, \$8,000. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, William Roboff, on premises. General alterations. Contract awarded to Thomas E. Bressi, 744 South Sixth street, Philadelphia.

**Apartment (add.)**, Northeast Corner Eighteenth and Master streets, \$10,000. Architect, private plans. Owner, Samuel Wohlfeld, City Centre Building, Philadelphia. Brick, 2 stories add., 20x16 feet. Contract awarded to Harry Slass, 1809 North Seventh street, Philadelphia.

**Garage (add.)**, West side Twenty-first street, North of Cambria, \$8,000. Architect, private plans. Owner, Joseph Manfrieda, 2103 West Cambria street, Philadelphia. Brick, 1

story add., 60x100 feet and 40x28 feet, slag roof, cement floors. Contract awarded to James Seoles, 3054 Fox street, Philadelphia.

**Loading Platform**, River Road, Manayunk, Philadelphia, \$6,000. Architect, private plans. Owners, Philadelphia Paper Mfg. Co., River Road, Manayunk, Philadelphia. Brick, 165x12 feet, iron roof. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building.

**Garage (add.)**, East side Sixteenth street, South of Luzerne street, \$5,000. Architect, private plans. Owner, L. W. Cummings, 2442 North Marshall street, Philadelphia. Brick, 1 story add., 51x19 feet, 80x19 feet and 25x10 feet. Contract awarded to Edward B. Miller, 3935 North Marshall street.

**Dye House**, East side Schuylkill Canal, North of Fountain street, \$5,000. Architect, Horace M. Hokanson, 1713 Sansom street, Philadelphia. Owners, A. T. Baker & Co., on premises. Brick, 1 story, 38x42 feet, cement floors, slag roof. Contract awarded to Barclay White Co., 1713 Sansom street.

**Store and Storage Building**, Northwest Corner Orthodox street and Trenton avenue, \$3,000. Architect, private plans. Owner, S. Gwinski, 2141 Orthodox street, Philadelphia. Brick, 2 stories, 14x38x8 feet. Contract awarded to A. Gwinski, 2141 Orthodox street, Philadelphia.

**Workshop**, 4977 Lancaster avenue, Philadelphia, \$4,000. Architect, private plans. Owner, William Hansell, 5328 Thompson street, Philadelphia. Brick, 1 story, 30x60 feet, slag roof, electric work. Contract awarded to S. A. Rogers, 5312 Thompson street, Philadelphia.

**Moving Picture Theatre (alts.)**, Northwest Corner Twenty-fifth and Ridge avenue,

\$6,000. Architect, private plans. Owner, L. Kapner, 413 Heyman Building, Philadelphia. General alterations. Contract awarded to Girard Realty Const. Co., 3220 Columbia avenue.

**Foundry**, Southwest Corner Church and Stiles streets, Philadelphia, \$4,000. Architect, private plans. Owners, Koehler & Latimer Co., on premises. Steel, Standard Truscon Building, 1 story, 28x84 feet. Contract awarded to Truscon Steel Co., 1432 South Penn Square.

**Shop**, 5012 Lancaster avenue (rear), Philadelphia, \$3,400. Architect, private plans. Owner, Michael Celenza, 5006 Thompson street, Philadelphia. Brick, 1 story, 44x88 feet, slag roof. Contract awarded to A. J. Fiorello, 544 North Fifty-third street, Philadelphia.

**Store and Residence (alts. and add.)**, 6227 Woodland avenue, \$3,000. Architect, private plans. Owner, S. Richman, on premises. Brick, 1 story add., 4x30 feet, general alterations. Contract awarded to M. Stackhouse, 6081 Rianhard street, Philadelphia.

**Store and Residence (alts. and add.)**, Northwest Corner Fourth and Emily, \$3,000. Architect, private plans. Owner, Wolf Weisbord, 418 Mercy street, Philadelphia. Brick, 2 stories add., 16x18 feet, general alterations. Contract awarded to Louis Cohen, Southeast Corner Second and Jackson streets.

**Residence and Store (alts. and add.)**, 1639 West Venango street, \$3,325. Architect, private plans. Owner, Simon Colo, 2834 North Twenty-seventh street, Philadelphia. Brick, 2 stories add., 12x10 feet, general alterations. Contract awarded to Philip Jacobs, 908 North Eighth street, Philadelphia.

**Store and Residence (alts. and add.)**, 1525 South Tenth street, \$2,500. Architect, private plans. Owner, S. Terri, on premises. Brick, 1 story add., 16x9 feet, general alterations.

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tions. Contract awarded to Frank R. Bilotta, Southeast Corner Seventh and Christian.

**Residence and Store (alts. and add.),** 6538 Chew street, \$2,000. Architect, private plans. Owner, Antonio Di Marco, 6538 Chew street, Philadelphia. Brick, 1 story add., 14x14 feet, general alterations. Contract awarded to Jacob Naschold, 5224 North Second street, Philadelphia.

**Rooming House (alts. and add.),** Southwest Corner Nineteenth and Girard avenue, \$2,200. Architect, private plans. Owner, Mark Trachtman, on premises. Brick, 3 stories add., 18x13 feet, general alterations. Contract awarded to M. Glasshofer, 529 Morris street, Philadelphia.

**Garage,** West side Sixth street, South of Rockland street, \$2,000. Architect, private plans. Owner, J. Morena, 4917 North Sixth street, Philadelphia. Brick, 1 story, 50x31 feet, slag roof, cement floors. Contract awarded to Fred Kainert, 228 East Willard street.

**Residence and Store (alts. and add.),** 2647 West Lehigh avenue, \$2,000. Architect, private plans. Owner, Henry Bouloynce, 2631 West Lehigh avenue, Philadelphia. Brick, 2 stories, 14x13 feet, general alterations. Contract awarded to F. L. De Silver, 7321 Chestnut avenue, Philadelphia.

**Storage Building (alts.),** South side Carson street, East of Baker, \$2,000. Architect, private plans. Owners, Liebert & Obert, on premises. General alterations. Contract awarded to E. L. Cuthbertson, 334 Roxborough avenue.

**Building (add.),** Southwest Corner York Road and Wagner avenue, \$2,000. Architect, private plans. Owner, B. Markizon, on premises. Brick, second story add., 14x20 feet. Contract awarded to P. Schnitzer, 820 West Wyoming avenue.

**Residence (add.),** 2570 Frankford avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Luigi Polcarcia, on premises. Brick, 2 stories, 14x35 feet, and third story, 14x14 feet. Contract awarded to Carlis & McAdams, 2275 East Williams street.

**Garage,** 5741-43 Vine street, Philadelphia, \$2,000. Architect, private plans. Owner, G. Elisio, 1318 Tasker street, Philadelphia. Brick, 1 story, 37x36 feet, slag roof, cement floors. Contract awarded to P. Falcone, 731 South Twelfth street, Philadelphia.

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## PENNSYLVANIA

# Construction News

**Service Building,** Wyncote, Pa. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, Mr. A. Krumbauer, care of architect. Brick, 2 stories. Plans in progress.

**Residence (alts. and add.),** Pottsville, Pa. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Robert Braum, Pottsville, Pa. Architect taking bids due November 9th.

**Building,** Elsmere, Delaware County, Pa. Architect, private plans. Owner, name withheld. Brick and steel, 1 story, 288x61 feet, slag roof, concrete and pine floors, steam heat, electric light, iron work. J. N. Gill Co., Otis Building, taking sub-bids.

**Residence and Garage,** Haverford Road, Ardmore, Pa. Architect, W. K. Durham, 1345 Pine street, Philadelphia. Owner, S. McKee-man, Belmont avenue, Ardmore, Pa. Cement block and plastering, 3 stories, 49x29 feet, wing 24x15 feet, 1 story, 24x28 feet, glazed tile roof, hardwood floors, hot water heat, electric light, tile and marble work, 3 baths. Architect and owner will be ready for general and sub-bids in a few days.

**Residence and Garage,** Haverford, Pa. Architect, W. C. Prichett, 225 South Sixth street, Philadelphia. Owner, name withheld. Stone and stucco, 2½ stories, 43x35 feet, electric light, hardwood floors, tile work. Plans in progress.

**Apartment Building,** Elkins Park, Pa. Architects, Tilden & Register, 1525 Locust street, Philadelphia. Owner's name withheld. Stone, 3 stories, 30x100 feet. Plans in progress.

**Sunday School,** Stonehurst, Pa. Architect, G. E. Savage, Witherspoon Building, Philadelphia. Owners, Miller Memorial Presbyterian Church, J. W. Ramsey, North American Building. Stone, 2 stories, 50x75 feet. Plans in progress.

**Show Room,** Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, name withheld. Terra cotta or brick, 2 stories, 30x80 feet, hardwood floors, electric light, tile work. Preliminary sketches being drawn.

**Church,** East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Grace Lutheran Church, Rev. Koster, East Stroudsburg. Stone, steel, 1 story and basement, 50x80 feet, slate roof, hardwood floors (heating, electric work, plumbing and painting reserved), ornamental

iron work. Revised plans in progress. Will be ready for bids next month.

**Residence,** Westover, Pa. Architect, William A. Klemann, First National Bank Building, Trenton, N. J. Owner, Edward D. Cook, Jr., Bellevue and Prospect aves., Trenton, N. J. Frame, 2 stories, 25x22 feet, shingle roof, pine floors, pipeless heat, electric light. Owner ready for bids.

**Country House (alts. and add.),** Radnor, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Isaac Clothier, care of architect. Frame, cut stone, stucco, steel, 2½ stories, 31x60 feet, hot water heat, electric light, metal lath, tile and marble work, pine, mastic, oak floors, shingle roof, waterproofing, bond, iron work. Architects taking bids due November 9th.

**High School,** Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, School District of Norristown, Pa. Brick, steel, stone, 2 stories, 269x149 feet, slag roof (plumbing, heating, electric separate), cork, concrete, composition, maple floors, metal lath, marble work, hollow metal sash and skylights and doors, bond, ornamental iron work, roof ventilators, waterproofing, hollow tile. Low bidders: Chester Contracting & Const. Co., Chester, Pa., 1, \$337,900; 2, deduct \$38,400; 3, omit gym wing, deduct \$72,500; 4, tinpan const., \$7,100 deduct. T. M. Gibbs, 215 South Broad street, Philadelphia, 1, \$382,511; 2, \$28,329; 3, \$50,139; 4, \$4,500.

**High School,** Springfield, Montgomery County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School Board of Springfield Township, Montgomery County, Pa. Brick, cut stone, stone, 2 stories and basement, 146x100 feet, 61x44 feet, composition and tin roof, cement floors, hollow tile, roof ventilators, ornamental iron work, bond, metal lath, electric light, steam heat. Low bidders: Chester Cont. & Const. Co., Chester, Pa., \$144,728; Friel & McLeister, 1615 Spruce street, Philadelphia, \$149,222. Electric, Enterprise Electric Co., 239 South Tenth street, \$5,621. Plumbing, Crisman & Quillman, Norristown, Pa., \$12,700. Heating and ventilating, J. H. Hutchinson, 1020 Calowhill street, Philadelphia, \$22,689.

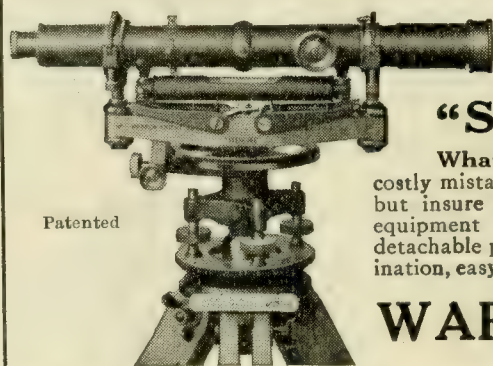
**Residence (alts.),** Brookline, Pa. Architect, E. J. Janke, 212 Middle City Building, Philadelphia. Owner, Constant De Bie, Brook-

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line, Pa. General alterations. Architect taking bids.

**Residence (alts. and add.),** Gettysburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, J. L. Keith, Gettysburg, Pa. Brick, 2 stories, 30x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, new plumbing, partition work, sun parlors, general interior alterations. Plans in progress. Owner will take bids.

**High School,** Shippensburg, Pa. Architect, J. A. Dempwolf, Center Square, York, Pa. Owners, School Board, C. E. Warren, secretary, Shippensburg, Pa. Brick, stone trim, 2 stories, 60x160 feet, slate roof, hardwood and concrete floors (heating, plumbing and electric reserved), tile work, safety treads, floor hardener, iron stairs. Plans in progress. Owners will be ready for bids in one week.

**High School,** Emporium, Cameron County, Pa. Architects, M. E. Kressley Co., 13 North Fourth street, Harrisburg, Pa. Owners, School Board, George Metzger, Jr., secretary, Emporium, Pa. Brick, frame, 2 stories and basement, composition roof, hardwood floors, hollow tile, roof ventilators, electric light, iron stairs, ornamental iron work. Plans in progress. Bids in December.

**School,** Greensburg, Pa. Architects, M. E. Kressley Co., 13 North Fourth street, Harrisburg, Pa. Owners, Greensburg School Board, Mary M. Peoples, secretary, Greensburg, Pa. Brick and stone, fireproof, 2 stories, 300x45 feet, and 3 stories, 200x45 feet (plumbing, electric work, heating and ventilating reserved). Owners taking bids due November 26th.

## Pennsylvania

### Contracts Awarded

**Theatre and Hotel,** Tamaqua, Pa., \$303,000. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owner, P. J. Higgins & Son, Tamaqua, Pa. Brick, steel, concrete, cut stone, 5 stories and basement, 54x150 feet, theatre capacity 1800, built-up roof, composition, hardwood and tile floors, hot air heat, vapor heat, electric light, tile and marble work, hollow metal sash and skylights, fire doors, roof ventilators, elevators, flag pole, marquee. Contract awarded Shamokin Lumber Co., Shamokin, Pa.

**Girls' Dormitories,** Swarthmore, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Swarthmore Col-

lege, Swarthmore, Pa. Stone, cut stone, steel, 2½ stories, 107x37 feet, 27x31 feet, 26x39 feet, 50x24 feet, slate roof, cement and pine floors, hollow tile, metal lath, tin clad doors, bond, ornamental iron work, terra cotta, waterproofing, steam heat, electric. Contract awarded McNeill Const. Co., Schaff Building, Philadelphia.

**Bank,** Drexel Hill, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Lansdowne Trust Co., Lansdowne, Pa. Stone, brick, cut stone, steel, 1 and 2 stories, 55x63 feet, wing 53x53 feet, slag roof, cement floors (heating and electric reserved), metal lath, tile, marble and terrazzo work, bond, iron work and stairs, waterproofing. Contract awarded Bowden Const. Co., 1935 Chestnut street, Philadelphia.

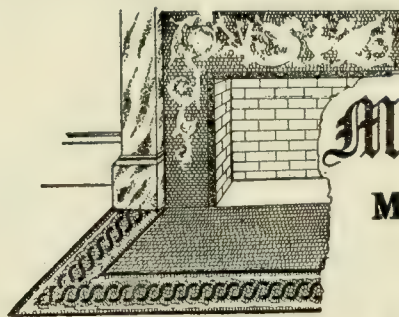
**Residence and Garage,** Chester, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Robert Wetherall, Chester, Pa. Brick, hollow tile and stucco, 2½ stories, 43x20 feet, wing 18x20 feet, garage 20x20 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded J. Howard Roberts, Lansdowne, Pa.

**Junior High School,** Lancaster. Architect, C. Emlen Urban, Lancaster, Pa. Owners, Lancaster City School District, Lancaster, Pa. Contract awarded Sinclair & Griggs, Medical Arts Building, Philadelphia, \$428,800. Heating, Eberall & Overdeer, Lancaster, Pa., \$73,050. Plumbing, Eberall & Overdeer, Lancaster, Pa., \$25,905. Electric, W. A. Tyde-man, Allentown, Pa., \$12,568.

**Residence,** Ambler, Pa. Architect A. C. Borzner, 717 Walnut street, Philadelphia. Owner, H. A. Riffel, Ambler, Pa. Stone and stucco, 2½ stories, 30x38 feet, shingle roof, pine and cement floors, tile work, hot water heat, electric light. Contract awarded G. W. Frankenfield, Ambler, Pa.

**Residence,** Sinking Spring, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, G. H. Edris, Sinking Spring, Pa. Brick, 1½ stories, 38x30 feet, slate roof, pine floors, electric lighting. Contract awarded to William Fromm, 706 North Thirteenth street, Reading, Pa.

**Residence (alts. and add.),** Front street, Harrisburg, Pa. Architect, G. H. Grove, 213 Market street, Harrisburg, Pa. Owner, Michael Rolles, 217 South Front street, Harrisburg, Pa. Brick, 3 stories, 10x23 feet, slate roof, hardwood floors, heating extension, electric lighting, tile work. Contract awarded to Charles Miller, Harrisburg, Pa.



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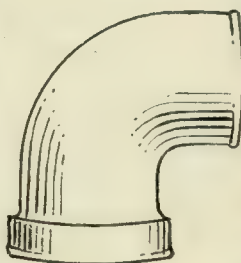
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## New Jersey Construction News

**Grade School**, Clinton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Board of Education, Clinton, N. J. Brick. Sketches in progress.

**School**, Baker's Basin, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Lawrence Township School Board, E. H. Pearson, secretary, Lawrenceville, N. J. Brick, terra cotta, 2 stories, 75x125 feet, slate roof, hardwood floors, hollow tile, roof ventilators, metal ceilings, metal lath, rolled steel sash, fire doors, iron stairs, ornamental iron work (heating and electric work reserved). Plans in progress.

**Settlement House**, Kaighn avenue, between Second and Third streets, Camden, N. J. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Kaighn Avenue Settlement House, care of G. C. Baker, 214 Market street, Camden, N. J. Brick. Sketches drawn. Too early for details.

**Comfort Stations (2)**, Atlantic City, N. J. Architect, not yet selected. Owners, City of Atlantic City, L. Steinbecker, City Hall, Atlantic City, N. J. Work contemplated.

**Comfort Station (1)**, Atlantic City, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, L. Steinbecker, City Hall, Atlantic City, N. J. Architect selected.

**City Hall**, Northfield, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Northfield, care of architect. Brick, hollow tile and stucco, 2 stories, 35x50 feet. Sketches in progress.

**Apartment (alts. and add.)**, South Seaside avenue, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, J. P. Conway, 208 South New Hampshire avenue, Atlantic City, N. J. General alterations, partitions. Preliminary plans in progress.

**Apartment**, Atlantic City, N. J. Architect, D. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, Dr. William O. Roop, Alexandria Apartments, Atlantic City, N. J. Brick, 3 stories, 37x90 feet, slag roof, hardwood floors, electric lighting, tile work. Plans in progress.

**Residences (7 two-family)**, location withheld. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Kenneth Thompson, 14 South Ohio avenue, Atlantic City. Brick, 2 stories, 38x38 feet, slate

roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Swimming Pool and Playground**, Atlantic City, N. J., \$500,000. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, N. Steinbecker, Atlantic City. Concrete, steel, brick, 4 stories, 60x100 feet, slag roof, concrete and pine floors, hollow tile, electric light, metal lath, waterproofing. Owners will take revised bids in ten days.

**Residence and Garage**, Cambridge and Atlantic avenues, Atlantic City. Architects, Dobbins & Schmidt, Segal Building, Atlantic City, N. J. Owner, N. M. Block, Macon, Georgia. Hollow tile and stucco, 2½ stories, 34x51 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Architect about ready for bids.

**Hotel (alts. and add.)**, South Kentucky avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner, Miss Margaret Healy, on premises. Brick, frame, 2 stories, 12x40 feet, slag roof, hardwood floors, electric light, general interior alterations. Architect taking bids due as soon as possible.

**Y. W. C. A. Building**, Hanover street, Trenton, N. J. Architect, William Thompson, 342 Madison avenue, New York. Owners, Y. W. C. A., Mrs. Edward Dunham, 365 West State street, Trenton. Associate architect, J. O. Hunt, Hunt Building, Trenton, N. J. Steel, concrete, brick, 3 and 4 stories, 54x155 feet and 72x55 feet, slag roof, hardwood and concrete floors, hollow tile, roof ventilators, waterproofing and dampproofing (heating, electric and plumbing reserved), metal lath, rolled steel sash and skylights, fire doors, iron stairs. Architects taking revised bids due November 15th.

## New Jersey Contracts Awarded

**Store and Apartment**, Margate City, N. J. Architect, D. Rosenstein, Humphreys Building, Atlantic City, N. J. Owner, J. J. Cassidy, 109 South Tennessee avenue, Atlantic City. Frame, 1½ stories, 45x65 feet, asphalt shingle roof, pine floors, hot water heat, electric light, tile work, roof ventilators, skylights. Contract awarded to Charles Thompson, Pleasantville, N. J.

**Hotel (alts. and add.)**, 17 St. Charles Place, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, Mrs. W. Davis, care of architect. Brick, hollow tile, 6 stories, 75x20 feet, slag roof, pine and hardwood floors, heating extension, electric light, metal lath, tile and marble work, new baths. Contract awarded to Max Dolinsky, New Jersey and Oriental avenues, Atlantic City, N. J.

**Bungalows (3)**, Oak street and France avenue, Woodbury, N. J. Architect, M. Capabianco, 731 Walnut street, Philadelphia. Owner, name withheld. Frame, 1½ stories, 26x43 feet, shingle roof, pine floors, electric light, pipeless heat, plumbing. Contract awarded to W. H. Fox, Woodbury, N. J.

Residence (alts.) to Apartment, Trenton,

N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, N. A. K. Bugbee, 206 East Hanover street, Trenton. Store front, partitions, electric work, hardwood floors, general interior alterations. Contract awarded to Fred R. Parker, 327 Calhoun street, Trenton.

## Miscellaneous Construction News

**United States Post Office Building**, Steubenville, Ohio. Architect, James A. Wetmore, Washington, D. C. Owners, Treasury Department of United States Government, Washington, D. C. Brick and steel, 2 stories, 171x100 feet, slag roof, steam heat, electric light, metal lath, tile and marble work, composition Ceramic tile floors, roof ventilators, metal weather strip, bond, terra cotta. Architect taking bids due November 21st.

## Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 29, 1923. Sealed Proposals will be opened in this office at 3 P. M., November 27, 1923, for the construction of a one-story brick and tile non-fireproof Post Office building, approximately 62 by 64 feet in size, at Gallipolis, Ohio. Drawings and specifications may be obtained from the Custodian of the site at Gallipolis, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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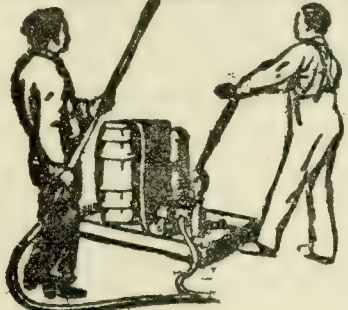
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## Proposals

### GOVERNOR'S MANSION AT KANAWHA, DUFFY AND VIRGINIA STREETS CHARLESTON, WEST VIRGINIA NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 2.00 P. M., Friday, December 28, 1923, for the furnishing of all labor and materials of every kind necessary in the completion of the building described below, according to the plans and specifications of Walter F. Martens, Architect, Charleston, W. Va.

The building is to be 73 ft. 6 in. x 81 ft. 2 in., with a service wing 58 ft. x 17 ft., and with additional areas for porches; semi-fire-proof construction; two stories high, with half basement and attic; walls brick, hollow tile; exterior walls faced with Colonial Red Brick; Vermont Marble and Indiana Limestone trim; slate roofing; built-up roofing on decks; structural steel and steel lumber; tile floors in halls, baths, toilets and porches, oak floors elsewhere; wood stairs on steel frames; trim Birch, Oak and Poplar; metal lath; Gypsum and cement plaster; wood sash, frames and doors; electric wiring, conduit system; intercommunicating telephone system; plumbing; vapor steam heating system; incinerator; vacuum cleaner.

Plans, specifications and blank form for bids will be mailed by the State Board of Control, when request is accompanied with check for \$25.00, which amount will be REFUNDED ONLY ON RECEIPT OF BONA-FIDE BID on or before the time named above, and the return of the plans.

Bids to be accompanied with certified check payable to the State Board of Control for an amount equal to 1% of the bid, as guarantee of good faith.

STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, Kanawha County, W. Va.

### HALL OF CHEMISTRY WEST VIRGINIA UNIVERSITY MORGANTOWN, WEST VIRGINIA NOTICE TO CONTRACTORS

Sealed proposals will be received by the State Board of Control, at its office in Charleston, W. Va., until 3.00 P. M. Friday, December 28th, 1923, for doing all work and furnishing all material necessary to complete the building described below, according to the plans and specifications, and the addenda thereto, prepared therefor by Paul A. Davis, 3rd, & Dunlap, Architects, Philadelphia, Pa.

The building is to be 305 ft. 7 in. x 79 ft., four stories, with basement and attic, with extension of one story and basement. Fire-proof construction except main roof, which is steel, wood and slate. Exterior of face brick with Indiana Limestone trimmings. Interior brick finished walls. Concrete ceilings. Interior wood finish of Oak. Interior partitions brick and tile. Stairs iron. Entrance vestibule marble and plaster. Floors of terrazzo, marble, tile, composition, cement and asphalt.

Plans and specifications, and blank form for bids will be mailed by the State Board of Control when request for plans is accompanied with check for \$25.00, which amount

will be REFUNDED ONLY UPON RECEIPT OF BONA-FIDE BID AND CERTIFIED CHECK, on or before time named above, and return of plans and specifications.

STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, Kanawha County, W. Va.

(Continued from Page 708)

of last Spring. However, such necessary construction as is to be done should be arranged for now and the preliminary work undertaken at an early date so as to gain the advantage of all favorable periods for progress between intermittent interruptions caused by inclement conditions and in addition relieve as much as possible the congestion that may come in the Spring.

4. "The American Construction Council is considering the economic aspects of the construction industry as they affect the people of this country as a whole and this statement is not intended to apply to those localities where the supply of labor is ample and weather and climatic conditions will permit construction work to go forward normally.

"While this covers all of the formal decisions of the Council, I think it is only right to announce that the present shortage in moderate priced homes for workmen and men of limited incomes such as has been shown to be peculiarly acute in New York City in the matter of low-rental apartments, is receiving the most serious consideration by the Council. It is our hope that the Council will be able to contribute to an amelioration of this condition. The problem requires further study before any definite announcement can be made, but if it is found, as I think it will be, that we can be of help, the public can rest assured that the entire influence of the Council through its far-reaching membership will be brought to bear upon a solution of this vital problem.

"As the officers of the Council are elected every two years, the present officers remain at the helm. In addition the following vacancies were filled at the recent meeting: Joseph H. Alexander, Vice President of the Cleveland Railway Company and John E. Lloyd, President of the Wm. M. Lloyd Company of Philadelphia, have accepted 'vice-presidencies in the Council, and Mr. Wright D. Goss, President of the Empire Brick and Supply Company of New York, has also accepted appointment as Assistant Treasurer of the Council."

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

## BACKBONE AND FINISH OF WOOD FLOORS

*Don't Count on Paint and Varnish to  
Take the Place of Sound Framing*

By ROBERT TAYLOR JONES, Technical  
Director Northwestern Division

(Reprinted by courtesy of The Architects' Small House Service Bureau of the United States from their official publication, *(The Small Home.)*)

Speaking of the construction of floors, let me say that a sound floor is obtained only if it is built upon a substantial framework of joists. These joists or floor beams must be reinforced against twisting and warping by being thoroughly trussed or "bridged" and this bridging must be run every six or eight feet of span of the joist.

Upon the joists thus reinforced is laid the subflooring. Subflooring is made of boards that are not too wide. Eight inches should be the maximum. If wider pieces are used subsequent warping may affect the finish flooring. Subflooring is laid diagonally across the joists so that the finish flooring can be laid at right angles to them, thus securing more rigid nailing. The diagonal flooring reinforces the cross frame and makes it possible for the finish flooring to run in one direction throughout a story.

Now this subflooring is often omitted through a misguided idea of economy. On the other hand, it is sometimes put on, but for the sake of saving a few dollars it is laid at right angles to the joists rather than diagonally to them. It is not difficult to support the argument that the joist system is practically as strong laid in this manner, but this is not the end of the story by any means. The finish flooring must run at right angles to the joists. That is a definite principle. But if the subflooring is run at right angles to the joists, then the finish flooring must run parallel to the joist or else parallel to the subflooring. In either case there is going to be sagging or cupping of the finish floors and generally bad appearance.

### Floors That Float

When the subflooring is run diagonally the finish floors can then run the long way of the room, which gives a very desirable effect. The recurrence of so many long lines in the floor such as are thus obtained has a tendency to increase the apparent length of the room to its advantage.

Above the subflooring should be laid paper, felt, or insulating quilt, depending upon whether it is desired only to keep out dust or to sound proof the floor. Where real sound proofing is desired it is customary to lay a quilt of the deadening material, and over this to run strips of wood midway between the joists. The



finish flooring is then laid over the strips and nailed thereto. The nails do not run into the joists and in consequence there is no definite connection between the finish flooring and the ceiling below. Thus sound is not carried through freely. Sometimes sound proofing is obtained by laying a course of the deadening material along the tops of the floor beams. The subflooring is then laid directly over this insulation, and the finish flooring follows with a course of felt or paper between the two floors.

#### *Quick Work—Better Floors*

When strips are laid under the finish flooring a space is provided for conduits or small piping which can be utilized to the advantage of the building. We think that the extra expense involved in stripping floors is well worth the cost, but it is not a necessary expense and one would not be justified in doing it if his funds were limited.

I can hardly be too insistent about the necessity of having all other work done, including practically all of the painting, before the finish floors are laid. Absolutely all construction work must have been completed, and wherever water has been used the work must be allowed to dry thoroughly before a single stick of the flooring is brought onto the job. You see the least dampness anywhere about the building will be readily taken up by the floor boards, and if this happens before they are laid some expansion takes place which no amount of tight driving can take up. When the floor dries, as it will at the time your home is heated, the boards will contract and leave cracks between them. All this can be avoided by following the principle I have given you—a dry building, all construction work done, the painting all but finished and very rapid laying of the floors—the quicker the better.

After the flooring is laid it must be prepared for finishing. This means a thorough scraping and sanding until all tool marks are eliminated and the edges of the adjoining boards brought down to a common plane. The modern method of dressing floors by means of a mechanically operated sanding machine has made it possible to do an almost perfect job of finishing, but this like other work about the house is often only half done. After the sanding—and this must be thorough, every corner being worked as carefully as the center of the room—the floors must be swept free of dust and sand as clean as they can be made. If the job has been well carried through not a fleck of dust will lie on the floor. There will be no mark from any machine, and the floor will be just as perfect as clean fresh boards can be. When this has been done the whole floor should be covered with

heavy building paper to protect it from damage until it can be finished.

#### *Protection and Decoration*

Do not wash the floor before finishing it to remove heavy stains unless it is absolutely necessary, and even then use only clear water. If you wash the floor with soap and do not get absolutely every bit of it out of the wood, which is almost impossible to do, the varnish will be ruined in the course of a short time.

If the floor has become soiled you should use every possible means to clean it by scraping and sanding. That is the only really satisfactory way. Any wash that is put on the floor to clean it up, even if it is clear water, is likely to cause some trouble later on, for then it is almost impossible to get the floor as dry as it should be.

But the blemishes must be removed. Dirt stains of any kind cannot be hidden by the varnish. In fact, they are accentuated by it.

The finish, whether it be paint, varnish, shellac or wax, is put on the floors to protect them. All wood floors must be protected from moisture and marring. The finishes that are put on the floors of residences combine this protective quality with that of decoration. That makes a special problem of such floors, for here is a part of the building that is designed definitely to take wear. The floors are to be walked on and scuffed over. Somebody is likely to come in with hob nails. Just the ordinary course of walking about the house in common shoes is bound sometime to make an impression on the finish coating if not in the wood itself.

#### *The Painter Makes Tests*

One of the best ways to protect the top of the floor is to protect the bottom of it. This may be done by the simple process of applying a coat of linseed oil to the under side of the finish flooring before it is laid. A good coat of shellac serves something of the same purpose, but oil is preferred. This helps to keep the wood fiber from absorbing moisture. It makes your floors more permanent.

As a matter of fact, the upper surface of the floor may be protected in the same way. One or two coats of hot linseed oil may be mopped on. However, the objection to this is that the oil darkens the floors. If you want a particularly light floor this process cannot be followed. In order to make sure of the effect that you are going to get, just have the painter oil a few pieces of flooring as a sample for you to see. He can also apply the other finish coats that you want, so that you will know definitely how your floors will finally appear.

When oak is used for flooring it should be "filled" before the finish coats are put on. This "filling" is put on for the purpose of levelling off the wood. Oak is

a porous or open grained wood and the nature of these woods is such that they cannot be sanded to an absolutely smooth surface. There are spaces between the fibers which must be artificially filled. For such woods when used as floors a "paste filler" is applied. This is wiped off smooth after it has started to set and is afterward sanded, leaving an absolutely plane surface on which to build up the final coats. Sometimes the coat of filler is stained to reduce the lightness of the floors. Do not get them too dark. Remember that they will work darker as time goes along. Close grain woods, such as pine and maple, do not require a filler.

If a stained effect is desired on either hard or soft floors, it should be applied in the form of an oil stain and afterward coated with a fine film of shellac. The shellac is used to seal the stain and to prevent it working up into the varnish brush. You cannot avoid using it in this particular place, but shellac is not a good material for floors that are not to be almost completely protected by rugs.

Shellac will not stand up under traffic. It is brittle—like glass, whereas a floor varnish must be tough and elastic. Sometimes a first coat of shellac is put on followed by a coat of varnish. This is not a good practice. If you are going to have a varnish finish, then put on two coats of the very best varnish that can be obtained. Three coats will be better and cheaper in the long run. You can have a high gloss or a dull finish as you prefer. The dull finish is obtained by using a flat varnish or else by rubbing the high gloss varnish with pumice and oil. The former method is less expensive, but the rubbed finish is more durable.

Be sure that it is neither hot or cold where the varnishing is done—that the wind is not allowed to blow directly on the drying varnish and that at least forty-eight hours is allowed between coats.

Wax floors are sometime preferred. They have a peculiar satin-like sheen which gives them an air of especial elegance. However, it must be remembered that a waxed floor requires a great deal more care to keep in condition than a varnished floor.

To begin with, wax floors are built up on oak by applying a coat of paste and then, for this particular finish only a very thin coat of shellac. Sometimes the shellac is omitted and a special oil is used in preference. The shellac coat is sanded and then two coats of wax are put on, each one being rubbed to a high polish with a heavily weighted brush. Additional coats of wax must be put on from time to time, especially where wear is greatest around doorways and so on, so that by the end of the year you should have accumulated several coats of wax



over the entire floor. Having built up this base, less and less waxing will be required as time goes on excepting in those places where wear is the greatest. Soft woods like pine and close grained woods like maple may be waxed immediately above the linseed oil coating—if that method is used. If a stained finish is to be obtained, then it must be sealed in either with shellac or else with one of the special coatings prepared by paint manufacturers for that purpose.

The waxed finish requires constant care and considerable hard work to keep it in satisfactory condition. On the other hand, varnished floors can be cleaned very readily. One of the best ways to do this is to wipe them up once a month with a soft cloth dipped in skimmed milk. This restores the original finish and makes the floors look like new. Of course the varnish cannot be expected to last indefinitely. The floor ought to be revarnished once a year. The application of one coat will not be expensive. Before the yearly coat is put on, the floors should be wiped up with clean water and allowed to dry thoroughly. Make sure that the drying is complete. Do not use soap if you can possibly avoid it.

The methods we have indicated here, if followed, will secure you a good job. However, certain manufacturers have perfected a special technique for each operation in which their materials are used. The guaranty supplied by these manufacturers is based on a rigorous observation of the processes they recommend. Your painter should be instructed to follow such advice as is given to the fullest extent.

You walk on your floors continuously. Have them right. See that you have good materials and good workmanship. We have seen many a floor that might have been fine, but which had been absolutely ruined by poor nailing, poor matching, poor finishing. You have a right to expect the best if you pay for it.

### 22,000,000 PEOPLE LIVE IN ZONED CITIES

More than 22,000,000 people, comprising 40% of the urban population of the United States live in 183 zoned cities, towns and villages, according to a statement made public by the Division of Building and Housing of the Department of Commerce.

During the first eight months of this year 54 municipalities, with more than 6,500,000 population, have adopted zoning ordinances. This indicates the greatest progress in zoning that has ever been made during a similar period. More than two-thirds of the 183 zoned municipalities have been zoned since September, 1921.

Neighborliness in the use of land is said to be the keynote of zoning. The home owner is protected from the intrusion of the junk yard which for no good reason might be moved into his neighborhood, and business and shopping districts are protected against noisy factories. Industrial plants have greater freedom in selecting sites convenient to good transportation. Such measures should provide for the use of the different kinds of land and districts within a city for the purposes to which they are best adapted, and allow for orderly growth of commercial and industrial districts. They accomplish their purposes by regulating the height of buildings, the area of the land that they may cover, and the use to which they may be put in the different districts of the city or town. The zoning ordinance is generally an auxiliary to the city plan, and helps to provide for the orderly growth of the city along lines that will bring the most satisfactory results to all concerned.

Revised figures show that on January 1, 1923, 129 municipalities had adopted zoning regulations. During the year 54 more, some large and some small, located north, south, east and west, have been added to the list. Of the 68 cities in the United States with over 100,000 population, 36 have zoning ordinances in effect. Chicago, Baltimore, Pittsburgh, Kansas City, Seattle, Providence, Columbus, Worcester, Grand Rapids and Youngstown are among the larger cities which have adopted zoning ordinances this year. The smallest community to adopt a zoning ordinance in 1923 had only 420 inhabitants, according to the last census. Twenty-one towns and villages of less than 10,000 inhabitants adopted zoning regulations in 1923. Seventeen communities with 10,000 to 50,000 population, and 16 cities with more than 50,000 population also zoned during the year.

In the number of places zoned, New Jersey leads with 51; New York is second with 30; Illinois, third with 23; California, fourth, with 17; Ohio, fifth, with 13; Massachusetts, sixth with 11; Wisconsin, seventh, with 10; and Missouri, eighth, with four. Indiana, Kansas and Michigan have three each; Rhode Island and Washington have two each; and Georgia, Maryland, Minnesota, Nebraska, North Carolina, Pennsylvania, Tennessee, Texas, Utah and Virginia have one each. The District of Columbia also is zoned.

More new state zoning enabling legislation has been passed in 1923 than usual, and the standard state zoning enabling act which was prepared by the Department of Commerce was used to a greater or less extent in most of the laws. Connecticut, Delaware, Iowa, North Carolina, North Dakota, Oklahoma, Pennsyl-

vania and Wyoming passed important zoning enabling acts, and a number of other states passed legislation supplementing or amending existing laws. The State of Wisconsin has passed an act granting to counties the power to zone.

The complete list of zoned municipalities, as of September 1, 1923, with references to the state acts under which zoning is permitted, may be obtained from the Division of Building and Housing of the Department of Commerce, Washington, D. C.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 46  
November 14, 1923

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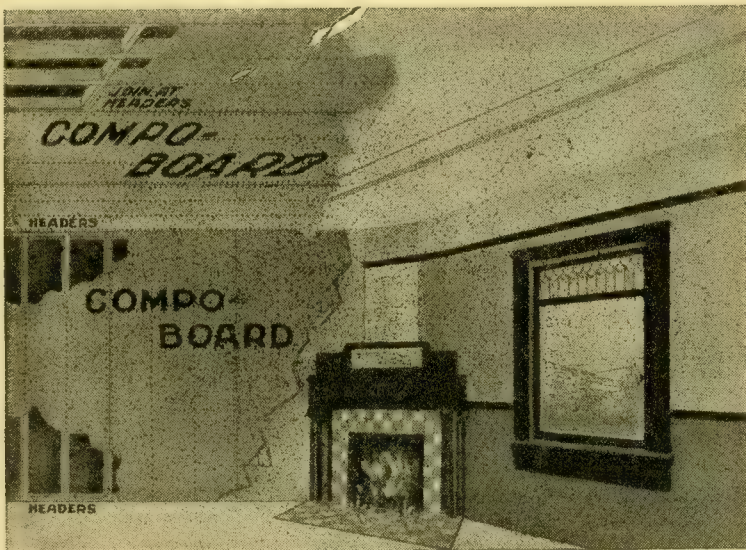
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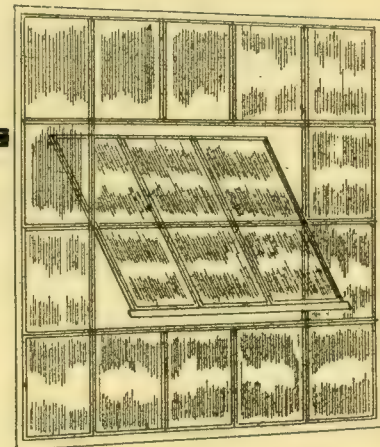
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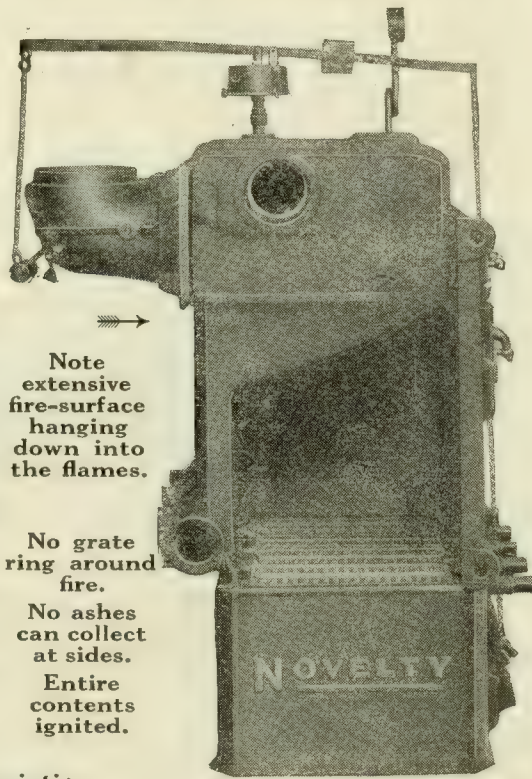
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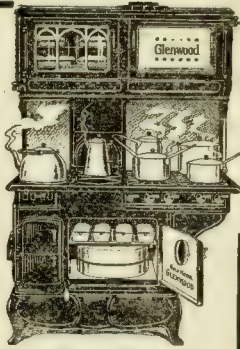


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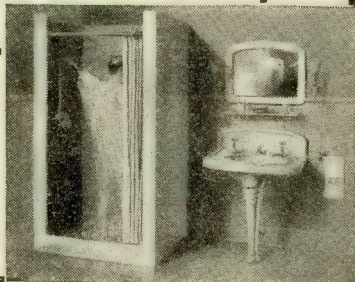


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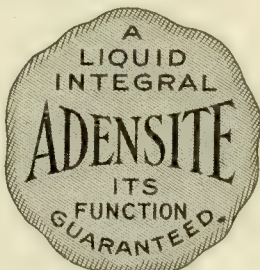
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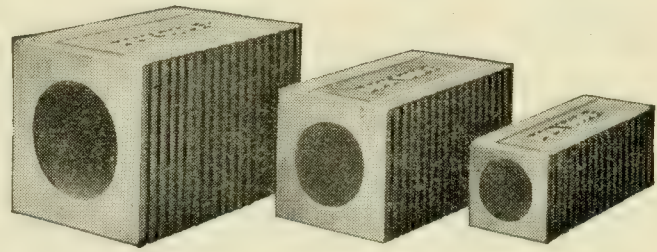
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 46

PHILADELPHIA  
November 14, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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## As The Editor Sees It



### THE NEW ARCHITECTURE

*Temples of Mammon Supersede Those  
of Ammon*

BY HENRY S. CHURCHILL

The New Architecture is with us, inexorably forced upon us whether we will or not, by economic law. The relentless drive of economic necessity the governing law of modern, even if not, as some maintain, of all life has created and is creating the architecture of today in actual structural fact. Aesthetically, where that law has been accepted and expressed, we have a living art; where it has been denied and disguised, we have a dying art.

Architecture has always been a reflection of the age that produced it. The hope of Egypt, the clarity of Greece, the pomp of Rome, the faith of the Middle Ages, the license of the eighteenth century, the acquisitiveness of the twentieth are faithfully mirrored in the temples of the times, whether these temples be of Ammon or of Mammon. Nor is there any doubt that as the material side of life has developed more swiftly in the last hundred years than in all the preceding historic centuries, so the structural side of architecture, which corresponds to the material side of life, has undergone greater changes in the last generation than in any preceding period of its history. A hundred years ago New York was a charming, if muddy, city of red-brick houses with white doorways

and cast-iron balconies, spired churches, and low warehouses and wharves, situated on a rocky island. Farm-houses dotted the open spaces between the villages of Yorktown and Harlem, Manhattanville and Bloomingdale. The fateful shadow of the gridiron had not yet fallen across it. As population, wealth and ostentation increased, there came brownstone fronts in endless rows, and more and more massive office buildings. In 1880 the first elevated railroad trailed its blighting way out to Harlem, elongating the city, choking its cross-town expansion, relegating the river fronts, the city's natural outlets to air and beauty, to commerce and squalor. Land in the Battery section became immensely valuable. Investors and owners, endeavoring to squeeze every drop of increment from their land, found that by building higher they could get greater returns. The height limit, however, would have remained that of convenient walking had it not been for the invention of the elevator. With its advent vertical transportation became a reality and the skyscraper a possibility.\*

But limitations to the first high elevator

\*The first real skyscraper was erected in Chicago, but under analogous conditions. There high property values were artificially created by the elevated "loop," which still effectively strangles the city.

buildings were soon discovered. It was found that the increase in thickness of the bearing walls necessary to carry great height ate up rentable floor space too rapidly to make a very great number of stories profitable, and besides cut off too much light. To take the place of these clumsy walls, cast-iron columns came into use, and various systems of long-span fire-proof floor construction. These were gradually developed to relieve the walls of practically all weight but their own. As the steel industry developed, steel columns came into use on account of their greater strength. The steel shapes were slowly standardized for lightness, convenience of design, and most of all swiftness of erection. It was found that by riveting an angle to the wall-beams it was possible to erect masonry from floor to floor independently of a masonry base, or to start it on many floors at once. The self-supporting wall thus went out of existence, as the floor-bearing wall had gone before, and the true skeleton frame came into being. Walls became simple fillers between floors, without any structural value whatever. This permitted reducing them to the least thickness compatible with their staying in place and keeping the weather out, and not only saved space, but weight and, consequently, steel.

Just as steel frames and curtain walls came into being through economic reasons, so brick has largely replaced stone

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as the material for those walls. Stone walls on a skyscraper are an anomaly. They do not carry themselves; they must be backed by some material to be weather-proof; they must be deviously anchored. In our industrial cities they deteriorate in the gas-laden atmosphere. The use of stone is an aesthetic tradition; the monumental material of the past, its use was appropriate in wall-bearing construction for monumental and sumptuous edifices. Today it persists as an example of the theory of conspicuous waste.

That stone has so largely gone out of use in recent years except for trimmings is due, however, not to a realization of its essential unfitness for its purpose, but to prohibitive cost occasioned by a combination of circumstances chiefly arising from the war and trade-union regulations. Under the pressure of these conditions and not from any aesthetic choice, it was discovered that brick could be beautifully laid in patterns as a colorful and decorative surface instead of as an imitation masonry wall. And the logical successor to brick—especially if the brick manufacturers succeed in combining themselves out of business—is terra-cotta.

Another change, the most recent and obvious, in the architecture of New York, has been brought about by the zoning and set-back laws. Economic dictates, of course, were behind the enactment of these laws. When the greed of property owners and speculators in exploiting the space above their lots threatened not only to become a menace to public health but to reduce rentals by cutting off light and air, it was found desirable to limit an owner's rights to do what he pleased with his own. The Rights of Private Property were invaded ostensibly for the protection of the public—and one of the most beautiful characteristic effects of New York architecture has been the result.

With the practical, modern office-building essentially a steel frame requiring, logically, an entirely new exterior expression, a fair question is: Why are our streets lined with specters of the outworn past? In a measure it is because aesthetic development must always lag behind structural changes which demand such rapid visual readjustments as are involved in the change from wall-bearing to skeleton steel construction.

A generation is a short time for the eye to get accustomed to new dynamic relationships. One of the most important of these relationships is the immensely greater strength of steel as compared to the materials formerly in use. The experience of ages had taught that so much masonry was needed to support so much weight; that a stone could reasonably span such a distance, a wood beam such another distance; that too slender

a support would buckle and break, too long a lintel sag and crack. Steel and reinforced concrete have changed all those long-accustomed balances. The eye must come to new realizations of what is safe, and therefore what is comfortable, and therefore what can give pleasure.

Other changes are the elimination of shadow brought about by shallow reveals in the thin curtain-walls, and the consequent emphasis of surface as opposed to mass; and the tremendously increased importance of the silhouette under the application of the set-back laws.

These adjustments are gradually taking place. The trend of the new design may be briefly and cursorily traced by considering the Park Avenue Hotel, the World Building, the Waldorf-Astoria Hotel, any loft building in the Fifth Avenue twenties, the Plaza Hotel, the Woolworth Building, Pierre's and Sherry's, the Fisk Building, and the new Shelton Hotel on Lexington Avenue.

It should be noted that while economic pressure tends on the one hand to make buildings structurally modern on the other it tends to hold back aesthetic progress through fear that "novelty" in appearance may hinder rentability. It is for this reason, as well as for aesthetic ones, that so many of our commercial structures are clothed in ill-fitting garments.

Although there is slow but evident progress visible in our commercial work it is nowhere visible in our public edifices, where the question of expense is not so fundamental, the desire for conspicuous waste often a ruling motive, and the dead hand of academic tradition falls most heavily. With the exception of the design for the Nebraska State Capitol, none of our recent public buildings show the slightest attempt to develop an architectural expression in accord with either the structural system or their surrounding civilization. Their steel frames are swathed in mummy-cloths. The absurdity of steel-framed masonry domes! The sterility of rows of useless columns! Endless modillions and garlands taking the place of imagination and suitable invention! How can they be other than ostentatious, dreary, and monotonous?

Almost as little evidence of change is to be found in our domestic architecture. Characteristically enough, the more expensive the work, the more time expended upon it, the less the progress. The reason here is not only the comparative lack of economic pressure; there is a simple psychologic factor involved. A man's house is what he lives with, and to most men the most usual is the most livable. Anything "different" in the way of a home would make him feel as ill at ease as a purple shirt with lace ruffles. Then,

(Continued on Page 734)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:  
CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Alterations and Additions**, 3530 North Twenty-fourth street, Philadelphia. Architect, Joseph Margolis, 1505 Race street, Philadelphia. Owner, I. Goodman, on premises. Brick, cut stone, steel, iron work, hardware, plastering, copper bars, painting and glazing. Architect taking bids due November 16th.

**Residences (2)**, Gilham street, East of Bingham, Philadelphia, \$3,800 each. Architect, private plans. Owner, Gus Beister, 1116 Magee street, Philadelphia. Brick, 2 stories, 15x40 feet, steam heat, slag roof, electric light. Owner will build.

**Residence**, Cobb's Creek Boulevard, Philadelphia. Architect, R. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Joseph G. Louderbach, 2427 South Edgewood avenue, Philadelphia. Stone and stucco, 2½ stories, 21x60 feet, hot water heat, electric light, tile and marble work, slate roof, hardwood floors. Plans in progress.

**Alterations and Garage**, Northeast Corner Thirteenth and Christian streets, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, H. R. Nolte, 827 South Thirteenth street, Philadelphia. Garage, brick and rough cast stone, 1 story, 14x18 feet, electric light, carpentry and mill work, plastering, painting and glazing. Plans in progress.

**Store and Basement (alts.)**, 417 Market street, Philadelphia. Architect, C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owners, A. S. Shafer Const. Co., 305 Shubert Building, Philadelphia. Barber shop, pool room, tailor shop, tile work, electric light, composition floors, plumbing, metal ceiling, 14x122 feet. Plans in progress.

**Residence (alt. to 3 Stores and 4 Apartments)**, Southwest Corner Seventeenth and Diamond streets, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Samuel Friedman, Northeast Corner Seventeenth and Diamond streets, Philadelphia. Brick, 3 stories, 18x80 feet, heating extensions, electric work, plumbing, tile and marble work, hardwood floors, plate glass. Plans in progress.

**Twin Houses and Garages (10)**, Foulkrod, East of Roosevelt Boulevard. Architect, Paul Livingston Boyd, 6943 Limekiln Pike, Philadelphia. Owner, William A. Lechler, 3705

Germantown avenue, Philadelphia. Stone, brick, stucco, 18x49 feet 2 inches, garage 12 feet, 6 inches x 20 feet, hot water heat, electric light, slag, slate and tin roof, wood and tile floors. Owner will take sub-bids.

**Building**, 1508 Chestnut street, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Provident Trust Co., 409 Chestnut street, Philadelphia. General alterations. Architect will be ready for bids in one week.

**Garage**, location withheld. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, name withheld. Brick, concrete, 3 stories, 34x104 feet, hot water heat, electric light, cement floors, elevators. Architect taking sub-bids due as soon as possible.

**Apartment (alts. and add.)**, 5300 Spruce street, Philadelphia, \$2,000. Architects, Durham Brothers, 1611 Sansom street, Philadelphia. Owner, M. Hutchinson, 5310 Spruce street, Philadelphia. General alterations and additions. Architects will build.

**Residence and Store (alts. and add.)**, 540 South Forty-ninth street, \$5,000. Architect, David Levy, 1208 Real Estate Trust Building, Philadelphia. Owner, P. Green, 4022 West Girard avenue, Philadelphia. Brick, 1 story, 26x16 feet, 10x56 feet and 26x14 feet, general alterations. Owner will build.

**Building (alts. and add.)**, Queen Lane and Pulaski avenue, Philadelphia. Architects, R. R. Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owners, Glenn & Walker, 308 West Queen Lane, Germantown, Pa. Brick, 1 and 2 stories, irregular size, hot water heat, electric light, tile work, slag roof, pine floors, copper cornices. Architects taking bids due November 17th.

**Apartment Building**, Spruce below Broad street, Philadelphia. Architect, Charles Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, cut stone, 14 stories, 240x88 feet, slag roof, oak and cement floors, elevators, terra cotta, iron work, bond, hollow metal doors, copper skylights, hollow metal sash, tile and marble work, metal lath, electric light, steam heat. Architect taking bids due November 15th.

**Grocery Building**, 817 Vine street, Philadelphia. Architect, private plans. Owner, Joseph A. Wurster, 817 Vine street, Philadel-

phia. Brick, steel, 3 stories, 757x18 feet, slag roof, cement and pine floors, electric light, metal lath, rolled steel sash, hollow tile, elevators, dampproofing, bond. Owner taking bids due November 20th.

**Garage (add.)**, Marlborough and Richmond streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Miss Anna O'Hara, 1115 Marlborough street, Philadelphia. Brick, 1 story, 50x70 feet, electric lighting, cement floors, carpentry and mill work. Architect taking bids due November 15th.

**Garage**, 2749 Fairhill street, Philadelphia. Architects and engineers, Lehigh Eng. & Const. Co., Sixth below Lehigh avenue, Philadelphia. Owners, Crescent Tea Co., 2731 North Sixth street, Philadelphia. Brick, 1 story, 28x71 feet, slag roof, cement floors. Owners taking bids due November 17th. Reinforced concrete pavement on Sixth street, 53x12 feet.

**Francis Read School**, Eleventh and Moore streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Bond, cement and concrete, brick work, slate and iron work, tile work, steel work, carpentry and mill work, plastering, painting and glazing (plumbing, heating separate bids). Low bidders: Carr & Courtney, Twenty-third and Green streets, Philadelphia, \$3,010; William Langhorne, 5420 Locust street, Philadelphia, \$3,090. Plumbing, Bullman Brothers, Fifth and Cumberland streets, Philadelphia, \$3,496. Heating, Bullman Brothers, Fifth and Cumberland streets, Philadelphia, \$246.

**Residences (20)**, North side Thelma street, East of D street, \$80,500. Architect, private plans. Owner, Thomas J. McGarvey, 709 Penfield Building, Philadelphia. Brick, 2 stories, 15 feet, 6 inches x 34 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence, Garage and Store**, South side Woodbine avenue, West of Fifty-first, \$18,000. Architect, private plans. Owner, Isaac Solomon, 824 Snyder avenue, Philadelphia. Stone, 3 stories, slate roof, 40x33 feet, hardwood and pine floors, hot water heat, electric light, tile work, garage and store, 1 story, 18x20 feet. Owner will build.

**Garages (3)**, West side Meeting House Lane, South of Girard avenue, \$12,000. Architect, private plans. Owners, Myers & Elgart, 5230 Parkside avenue, Philadelphia. Brick, 1 story, 18x64 feet, 1 story, 18x172 feet, and 1 story, 8x70x46 feet, slag roof, cement floors. Owners will build.

**Residences (32)**, Phil-Ellena and Chew streets, Philadelphia, \$7,000 each. Architect, private plans. Owner, E. S. Davis, 314 East Vernon Road, Philadelphia. Brick, 2 stories, 20x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garage**, North side Buckius street, West of Frankford avenue, \$7,000. Architect, pri-

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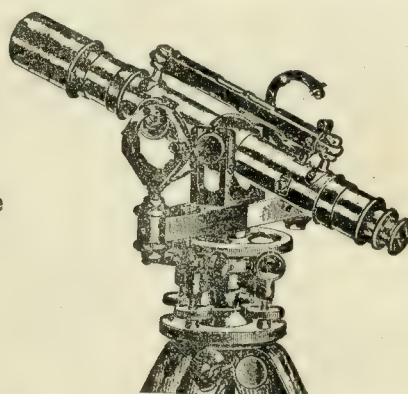
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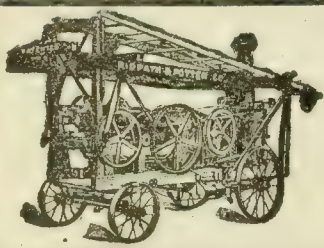
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vate plans. Owner, John Seigle, Jr., 4850 Roosevelt Boulevard, Philadelphia. Brick, 1 story, 32½x118 feet, slag roof, cement floors. Owner will build.

**Residences (2)**, 1017-19 Harrison street, Philadelphia, \$9,000 each. Architect, private plans. Owners, Rush Brothers, 4682 Darrah street, Philadelphia. Brick, 2 stories, 16x46 feet, tile roof, hardwood and pine floors, hot water heat, electric light, tile work. Owners will build.

**Warehouse**, 738 South Swanson street, Philadelphia, \$7,000. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owner, Joseph Gallagher, 50 South Third street, Philadelphia. Brick, 1 story, 85x112 feet, 57x23 feet, slag roof. Owner will build.

**Residences (2)**, West side Whitaker street, South of Shelmire, \$5,000 each. Architect, private plans. Owner, Peter Heidt, 7204 Montour street, Philadelphia. Frame, 2 stories, 16x34 feet, hot water heat. Owner will build.

**Workshop**, Southwest Corner Twenty-fifth and Tasker streets, Philadelphia, \$5,000. Architect, private plans. Owner, Frank Brennan, 2507 Tasker street, Philadelphia. Brick, 1 story, 30x40 feet, slag roof. Owner will build.

**Ice Storage Building (alts. and add.)**, Southwest Corner Twelfth and Washington, \$5,000. Architects, William F. Koelle & Co., Twenty-sixth and Oxford streets. Owners, Southwark Ice Co., Southeast Corner Twelfth and Washington avenue. Brick, 1 story add., 57x71 feet, general alterations. Architects will build.

**Garage**, North side Whitby avenue, East of Fifty-fourth street, \$6,000. Architect, private plans. Owner, H. J. Looper, on premises. Brick, 1 story, 83x20 feet, slag roof, cement floors. Owner will build.

**Residences (2)**, North side Fairthorne street, East of Mathias, \$5,000 each. Architect, private plans. Owners, G. L. & J. K. Callahan, 542 East Fairthorne street, Phila-

delphia. Stone and frame, 2 stories, 16x45 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (5)**, South side Greenway avenue, East of Sixty-eighth street, \$4,500 each. Architect, private plans. Owners, Berman & Cohon, 1947 East Moyamensing avenue, Philadelphia. Brick, 2 stories, 16x30 feet and 12x11 feet, slag roof, hot water heat, electric light. Owners will build.

**Residences (7)**, North side St. Vincent street, West of Oakley, \$4,500 each. Owner, Joseph P. McMahon, 4844 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 16x36 feet, 12x10 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences**, South side Princeton avenue, East of Gillespie, \$4,500 each. Architect, private plans. Owner, Edwin S. Tice, 3420 Disston street, Philadelphia. Brick, 2 stories, 16 feet, 4 inches x 35 feet, slag and slate roof, hot water heat, electric light. Owner will build.

**Workshop**, East side Fifteenth street, South of Bellfield avenue, \$3,000. Architect, private plans. Owner, Charles A. Mahon, 5640 North Fifth street, Philadelphia. Brick, 1 story, 20x95 feet, 6 inches. Owner will build.

**Store and Residence (add.)**, 5135 Market street, Philadelphia, \$3,000. Architect, private plans. Owner, George B. Kilpatrick, 5135 Market street, Philadelphia. Brick, second and third storie front adds., 20x8 feet, and 2 story rear add., 16x17 feet. Owner will build.

**Residence**, 705 West Dauphin street, Philadelphia. Architect, Paul Livingstone Boyd, 6943 Limekiln Pike, Philadelphia. Owner, F. C. Hangsterfer, 2312 Germantown avenue, Philadelphia. Stone and brick, 2 stories, 18x37 feet, slag roof, pine and tile floors, electric light, hot water heat. Owner taking bids on revised plans.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Office Building (alts.)**, 3936 Market street, Philadelphia. Architect, W. W. Donahue, 1120 Locust street, Philadelphia. Owner, C. R. Sinnott, on premises. Mill work, tin roof, hardwood floors, hot water heat, electric light, tile work, plumbing, plastering. Contract awarded James J. Murphy & Son, 3644 Market street, Philadelphia.

**Gym and Dormitory Hall**, Thirty-ninth and

Ludlow streets, Philadelphia. Architect, W. W. Donahue, 1120 Locust street, Philadelphia. Owners, Sisters of the Holy Child, on premises. Brick and steel, 2 stories, 89x41 feet, quarry tile roof, cement floors, electric light. Contract awarded J. J. Murphy, 3644 Market street, Philadelphia.

**Machine Shop**, 762-64-66 North Uber street, Philadelphia. Architect, private plans. Own-

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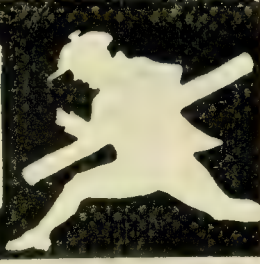
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ers, Hercules Welding & Machine Co., 223 North Sixteenth street, Philadelphia. Brick and steel, 1 story and basement, 47x75 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash and skylights, roof ventilators, ornamental iron work. Contract awarded Murphy Quigley, 1524 Sansom street, Philadelphia, \$20,000.

**Telephone Building**, 8318 Germantown avenue, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone and steel, 3 stories add., 86x33 feet, slag roof, composition and cement floors, electric light, steam heat, metal lath, tile and marble work, bond. Contract awarded E. H. Keefer, 1321 Rodman street, Philadelphia.

**Swimming Pool**, Hedge and Orthodox streets, Philadelphia. Architects, Willing, Sims & Talbutt, 129 South Eighteenth street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Brick, 127x98 feet, 16x98 feet, slate and slag roof, concrete floors, bond, waterproofing, terra cotta, iron work. Contract awarded Monaghan & Losse, 3016 Chestnut street, Philadelphia.

**Restaurant (alts.)**, 1209 Market street, Philadelphia, \$4,000. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, Wong Kew, on premises. Alterations to entrance, marble work, electric, carpentry. Contract awarded Kier Const. Co., 1612 Locust street, Philadelphia. (Note change in contractor.)

**Sales and Service Building**, McAlpin and Walnut streets, Philadelphia. Architect, private plans. Owner, W. Edwin Blair, 5954 Chestnut street, Philadelphia. Brick, hollow tile, stucco, 1 story, 68x101 feet, plate glass, steam heat, electric lighting, cement floors, slag roof. Contract awarded William R. Graham, 3649 Filbert street, Philadelphia.

**Residences (2) (alts.)**, 2116-18 Walnut street, Philadelphia. Architect, Edwin L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, J. A. Barry, Land Title Building, Philadelphia. Iron work, steel work, stone work, carpentry and mill work, plastering, plumbing, bond, electric light, marble work. Contract awarded William S. Gore, 1611 Walnut street, Philadelphia.

**Garage**, 1611 North Wellington street, Philadelphia. Architect, E. A. Weightman, 1213 Filbert street, Philadelphia. Owners, Taltval Brothers, care of architect. Brick, slag roof, 1 story, 22x70 feet, cement floors, steam heat, electric light. Contract awarded to J. Sims Wilson, 1125 Brown street, Philadelphia.

**Service Stations (2)**, East side Delaware avenue, South of Columbia avenue, and Southwest Corner Farragut and Chestnut streets, \$4,500 each. Architect, I. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick and terra cotta,

1 story, 12 feet, 6 inches x 12 feet, 6 inches, tile roof. Contract awarded to Metzger, Fisher & White, Otis Building, Philadelphia.

**Lobby Partitions**, Broad Street Station, Philadelphia. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Hardware, steel, sheet metal work, carpentry and mill work. Contract awarded F. G. Stewart, 1619 Sansom street, Philadelphia.

**Office (add.)**, Northeast Corner Cottman and Milnor streets, \$6,000. Architect, private plans. Owners, Delaney & Co., on premises. Brick, 2 stories, 27x30 feet, slag roof, pine floors, steam heat. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

**Residence and Garage**, Midvale avenue, between Stokley and Fox streets, Philadelphia. Architect, Lawrence Visscher Boyd, Harrison Building, Philadelphia. Owner, Raymond M. Remick, Land Title Building, Philadelphia. Stone, 2½ stories and 1½ stories, 52x26 feet, garage, 20x20 feet, slate roof, oak and pine floors, electric light, hot water heat. Contract awarded McClintock & Weaver, 24 Phil-Ellena street, Philadelphia.

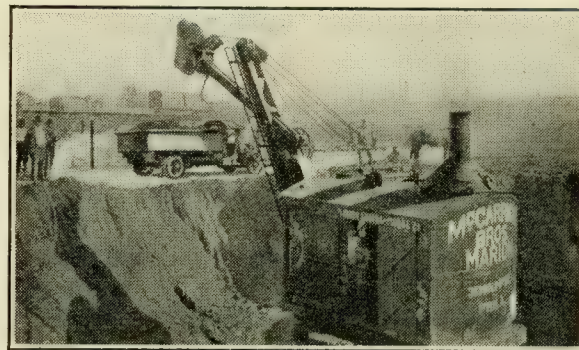
**Manufacturing Building (add.)**, 3110 North Seventeenth street, \$15,000. Architect, Irving Demarest, 1635 Thompson street, Philadelphia. Owners, American Meter Co., on premises. Brick, second and third stories, 39x53 feet, slag roof, electric lighting. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

**Garage**, 8, 10, 12 North Vogdes street, Philadelphia, \$15,000. Architect, private plans. Owner, J. H. Derr, 5803 Walnut street, Philadelphia. Brick, 1 story, 50x110 feet, slag roof, cement floors. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

**Warehouse**, East side Fifty-fourth street, North of Westminster avenue, \$11,500. Architect, private plans. Owners, Jacob Brothers, 1222 North Fifty-second street, Philadelphia. Brick, 1 story, 54x73 feet, slag roof, electric work. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

**Warehouse (add.)**, 1427-29 Bristol street, Philadelphia, \$8,000. Architect, Charles A. Schneinger, 1218 Chestnut street, Philadelphia. Owner, Joseph D. Haas, 1726 Cayuga street, Philadelphia. Brick, 2 story add., 47x83 feet, slag roof. Contract awarded to Stephen Haas, Eighteenth and Cayuga streets, Philadelphia.

**Residence**, East side Mitchell street, South of Parker avenue, \$7,800. Architect, private plans. Owner, Charles Levering, 6746 Ridge avenue, Philadelphia. Brick, 2 stories, 30x40 feet, hot water heat electric light. Contract



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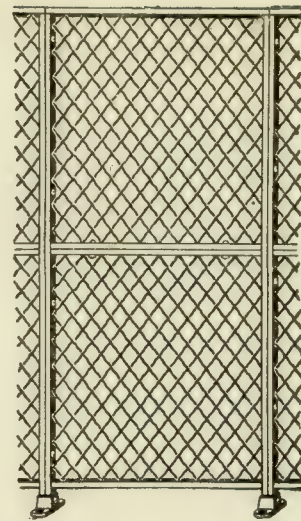
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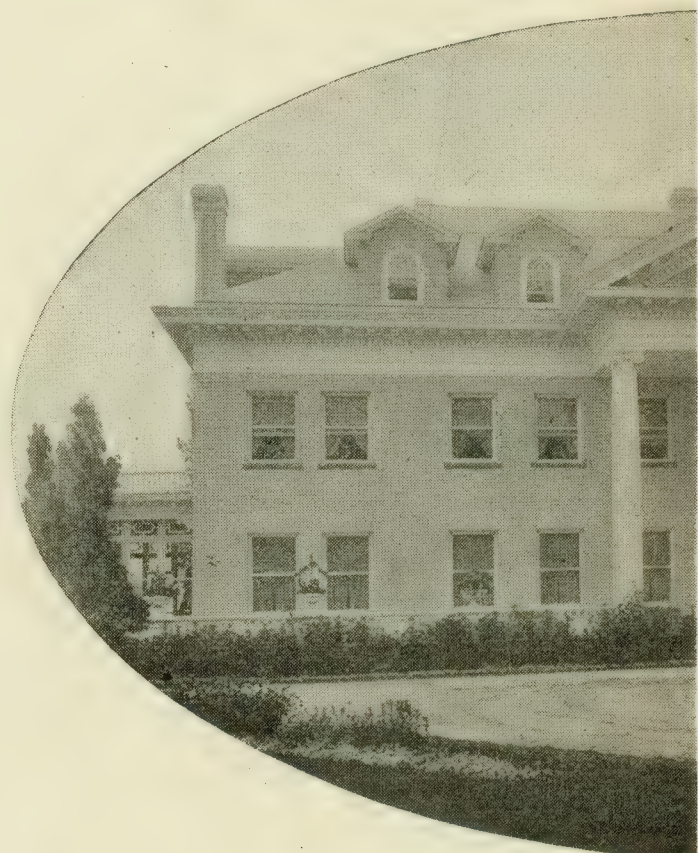
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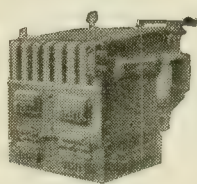
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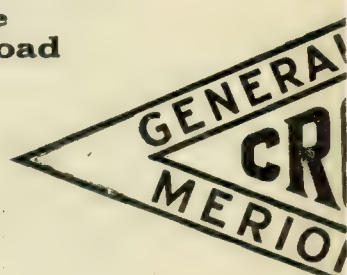
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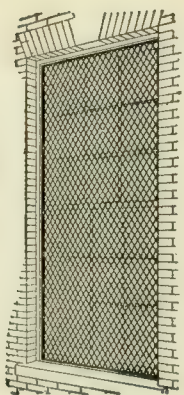


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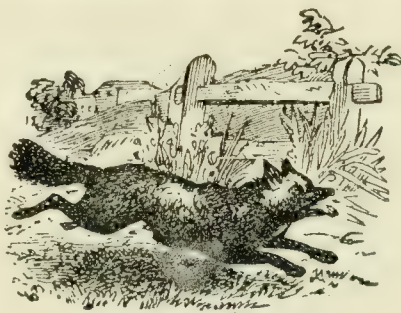
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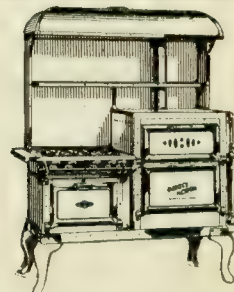
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**Store and Residence (add.)**, 421 South Fifth street, Philadelphia, \$6,800. Architect, private plans. Owner, M. Foreman, on premises. Brick, third story add., 13 feet, 6 inches x 28 feet. Contract awarded to A. Barsky, 2225 Arlington street, Philadelphia.

**Residence**, North side Longshore street, West of Loretta, \$6,500. Architect, private plans. Owner, Gertrude Simmons, Wildwood, N. J. Frame, 2 stories, 26x30 feet, and 1 story 11x8 feet, pipeless heater, electric lighting, hardwood and pine floors. Contract awarded to Richard Godfrey, Wildwood, N. J.

**Residence**, North side Disston street, West of Loretta street, \$6,000. Architect, private plans. Owner, Ethel Simmons, Wildwood, N. J. Frame, 1 story, 26x31½ feet, steam heat, electric light. Contract awarded to Richard Godfrey, Wildwood, N. J.

**Residences (2) (alts.)**, 341-43 South Smedley street, \$5,000 each. Architect, private plans. Owner, H. M. Blake, Frazier, Pa. General alterations, carpentry, mill work, painting. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

**Garage**, East side Sixth street, South of Annsbury street, Philadelphia, \$6,000. Architect, private plans. Owner, William F. Kohler, on premises. Brick, 1 story, 138x36 feet, slag roof, cement floors. Contract awarded to Carmine D'Anitoto, 2329 West Somerset street.

**Warehouse**, East side Second street, North of Fishers avenue, \$5,000. Architect, private plans. Owners, Frasey & Harmas, on premises. Brick, 1 story, 34x50 feet, slag roof, electric work. Contract awarded to D. W.

O'Dea, Fifth and Lindley avenue, Philadelphia.

**Garage**, 710 Medary avenue, Philadelphia, \$5,000. Owner, Norman B. Haffleigh, on premises. Brick, 1 story, 32x22 feet, slag roof, cement floors. Contract awarded to Harry Brocklehurst, 511 West Norris street.

**Residences (2)**, South side Durham street, East of Rodney avenue, \$9,000 each. Architect, private plans. Owners, M. M. Byron, 4513 North Eighteenth street, and H. W. Brick, 4511 North Nineteenth street, Philadelphia. Stone, 2 stories, 35x38 feet, asbestos shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Hause & Kriveton, 1423 Courtland street.

**Warehouse**, West side Howard street, South of Wharton street, \$15,000. Architect, private plans. Owner, John Kennedy, 406 South Van Pelt street, Philadelphia. Brick, 2 stories, 32x34 feet, slag roof, cement and pine floors, steel sash, electric light. Contract awarded to Long & White, 44 Armat street, Philadelphia.

**Apartment House (alts.)**, 1315 Rockland street, Philadelphia, \$15,000. Also **Garage**, \$2,000. Architect, private plans. Owner, J. Allison Parker, 4715 North Broad street, Philadelphia. Brick, 3 stories, 14x43 feet, 6 inches, slag roof, oak floors, hot water heat, electric light, general alterations. Garage, 1 story, 33x20 feet. Contract awarded to Albert Dunlap, 7223 Oak avenue, Philadelphia.

**Garage**, 2729-35 Cabot street, Philadelphia, \$5,000. Architect, private plans. Owner, Andrew Herrmann, Northwest Corner Newkirk and Thompson streets. Brick, 1 story, 55x57 feet, slag roof, cement floors. Contract

awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

**Hotel (alts.)**, 2320 Chestnut street, Philadelphia, \$5,000. Architect, private plans. Owner, William Weiss, on premises. General alterations. Contract awarded to Golder Const. Co., Northeast Corner Fifteenth and Manning streets.

**Residence and Store (alts. and add.)**, 5132 Walnut street, \$7,000. Architect, private plans. Owners, Eggleton & Hatchadorian, 5303 Girard avenue, Philadelphia. Brick, 2 stories, 12x9 feet and 12x17 feet, general alterations. Contract awarded to Harry Devletian, 5948 Walnut street, Philadelphia.

**Residences (2)**, South side Tyson street, West of Gillespie, \$6,000 each. Architect, private plans. Owner, Elmer Holmes, Disston and Gillespie streets, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to John G. Stevenson, 7014 Hegerman street, Philadelphia.

**Residence**, Northwest Corner Hunting Park avenue and K street, \$9,500. Architect, Joseph Rausch, 3417 Orianna street, Philadelphia. Owner, William B. Hayes, 1037 East Tioga street, Philadelphia. Stone, 2 stories, 30x44 feet, asbestos shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to A. Earl Barnes, 2044 East Clementine street.

**Residence**, South side Medary avenue, West of Twelfth street, Philadelphia, \$9,200. Architect, private plans. Owner, Joseph A. Vanheren, 1929 Spencer street, Philadelphia. Stone, 2 stories, 24x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to W. John Stevens, Wyncote, Pa.

**Building (alts.)**, 309 Market street, Philadelphia, \$6,000. Architect, private plans. Owners, Goodman, Armon & Goodman, on

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premises. General alterations. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

**Garages (3)**, South side Windrim avenue, East of Marvine street, \$11,800. Architect, private plans. Owner, Robert Iden, 5208 North Eleventh street, Philadelphia. Brick, 1 story, 17x75 feet, slag roof, cement floors, also 1 story, 40x34 feet, and 1 story, 15x26 feet. Contract awarded to J. F. Crowthanel, 4528 North Carlisle street, Philadelphia.

**Garage and Service Station**, 2221-23 North Broad street, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick, concrete, 5 stories, 70x151 feet (heating, plumbing, electric and elevators reserved), slag roof, cement floors, metal lath, tile work, rolled steel sash, galvanized iron skylights, rolled steel doors, bond, iron work, cold water painting. Contract awarded F. V. Warren, 1913 Arch street, Philadelphia.

**Residence**, North side Verree Road, North of Naples street, \$7,400. Architect, private plans. Owner, Fred Winterstein, 178 Wyoming avenue, Philadelphia. Frame, 2 stories, 26x51 feet, hot water heat, shingle roof, electric light, hardwood and pine floors. Contract awarded to Charles W. Hand, 178 Wyoming avenue, Philadelphia.

**Apartment (alts.)**, 4419 Baltimore avenue, Philadelphia, \$5,000. Architect, private plans. Owner, E. Axelrod, 402 South Fifty-seventh street, Philadelphia. General alterations. Contract awarded to K. Goldberg, 1011 Chestnut street, Philadelphia.

**Rooming House and Store (alts.)**, Southeast Corner Twenty-ninth and Girard avenue, \$4,000. Architect, private plans. Owner, Herman Moskowitz, 215 South Broad street, Philadelphia. General alterations. Contract awarded to Harry Goldberg, 2419 South Fairhill street.

**Office (alts.)**, Northeast Corner Sixteenth and Sansom streets, \$2,000. Architect, private plans. Owners, General Refractories Co., on premises. General alterations. Contract awarded to F. V. Yeager, 9 South Thirty-sixth street, Philadelphia.

**Garage**, 4642 Parrish street, Philadelphia, \$3,460. Architect, private plans. Owner, R. D'Allura, 4644 Parrish street, Philadelphia. Brick, 1 story, 18½x60 feet, slag roof, cement floors. Contract awarded to Joseph Marzoni, 5021 Kershaw street, Philadelphia.

**Store (repairs)**, 2111 North American street, Philadelphia, \$2,700. Architect, private plans. Owner, David McMullin, on premises. General fire repairs. Contract awarded to Theo. L. Warfel, 918 North Thirteenth street, Philadelphia.

**Building (add.)**, 3901 North Seventh street, Philadelphia, \$2,400. Architect, private plans. Owner, J. N. Disor, Southwest Corner Thirty-first and Euclid avenue, Philadelphia. Brick, 1 story add., 15x25 feet, slag roof. Contract

awarded to Sol Getz, 2720 West Oxford street, Philadelphia.

**Residences and Stores (2) (alts. and add.)**, 3425-27 Walnut street, \$3,000. Owner, W. Edwin Blair, 5225 Chestnut street, Philadelphia. Brick, 1 story add., 12x8 feet, general alterations. Contract awarded to W. B. Lane, 5220 Chancellor street, Philadelphia.

**Building (alts.)**, 1643 West Venango street,

Philadelphia, \$2,800. Architect, private plans. Owner, N. G. Savage, on premises. General alterations. Contract awarded to Philip Jacobs, 2908 North Eighth street, Philadelphia.

**Business Building (alts. and add.)**, 915-17 North Nineteenth street, \$4,000. Owner, E. B. Shreve, 724 Grove street, Philadelphia. Brick, 1 story add., 23x27 feet, general alterations. Contract awarded to H. D. Make, 1915 North Nineteenth street, Philadelphia.

## PENNSYLVANIA

# Construction News

**Residences (1,000)**, Eleventh street to Twelfth st., Keisertown road to Ward st., Highland Park, Chester, Pa., \$4,000,000. Architect, private plans. Owner, William G. Price, Chester, Pa. Brick, stone, stucco, 2½ stories, electric light, hardwood and pine floors. Plans in progress.

**Residence (alts.)**, **Garage**, 6391 Overbrook avenue, Overbrook, Pa. Architects, Price & Walten, 119 South Fourth street, Philadelphia. Owner, A. Percival Smith, Overbrook, Pa. Stone and brick, 1 story, 15x20 feet, slate roof, cement floors, hot water heat, electric light, ornamental iron work. Architect taking bids due November 19th at noon.

**Brunswick Hotel (add.)**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Brunswick Hotel Co., A. J. M. McConomy, Lancaster. Brick and terra cotta, 8 stories, 80x85 feet, hollow tile, terra cotta, heating extension, electric lighting, meal lath. Plans in progress.

**School**, Prospect Park, Moore, Delaware County, Pa. Architect, Clarence Brazier, Crozer Building, Chester, Pa. Owners, Board of Education of Prospect Park, B. F. Moore, secretary, Moore, Pa. Brick, 2 stories. Plans in progress.

**Club House (alts. and add.)**, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, St. Aloysius' Society, H. Spiegel, South Bethlehem, Pa. Brick, composition roof, hardwood floors, hollow tile, safety treads, roof ventilators, steam heat, electric light, metal lath, tile and terrazzo work, rolled steel sash. Revised plans in progress.

**Residence and Garage**, Oakmont, Pa. Architect, R. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Francis Kelly, care of

architect. Stone and stucco, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

**Residence (alts. and add.)**, Ardmore, Pa. Architect, R. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, R. Pugh, Ardmore, Pa. Tin shingle roof, new systems for heating, electric lighting and plumbing, plastering, tile and marble work. Plans in progress.

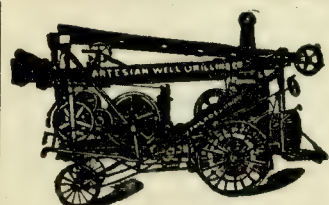
**Residences (6)**, Ardmore, Pa. Architect, R. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, name withheld. Stone, stone and stucco, 2-2½ stories, 24x45 feet, wing 18x18 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

**Highway Bridge**, Gettysburg, Pa., over Swift River Creek. Architect, C. B. Long, Boyer Arcade Building, Norristown, Pa. Owners, Adams County Commissioners, C. Tawney, Clerk, Gettysburg, Pa. Drawing plans.

**Bridge**, across Susquehanna, Millersburg, Pa. Architect, C. E. Schaup, 222 Market street, Harrisburg, Pa. Owners, Millersburg & Liverpool Bridge Corp., J. A. W. Brubaker, Harrisburg, Pa. Drawing plans.

**Cottage No. 4 and Nurses' Cottage (interior completion)**, Laurelton, Pa. Architect, G. S. Idell, 1705 Chestnut street, Philadelphia. Owners, Laurelton State Village, care of Mrs. H. N. McClure, Laurelton, Pa. Stone, 2½ stories, vapor heat, electric light, plumbing, macite partitions, plastering, cement work, painting, interior mill work, kitchen equipment, hardware. Architect will be ready for bids in one month.

**Residence (interior alt.)**, Haverford, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, name withheld.



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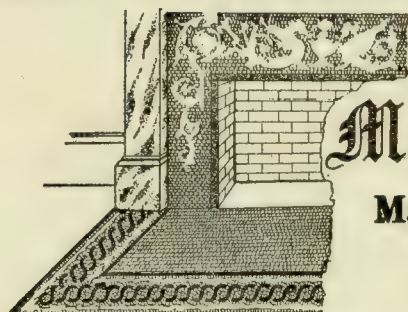
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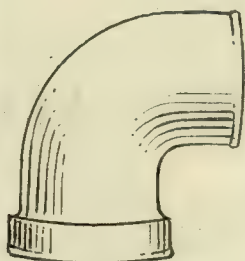
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**Garage**, Butler near Elder street, Easton, Pa. Architect, L. Kennard, 315 Broadhead street, Easton, Pa. Owners, Klein Motor Co., care of C. Peters, 319 South Eleventh street, Easton. Brick, steel, 2 stories, 144x105 feet, slag roof, concrete floors, vapor heat, electric light, steel sash. Owners will take bids.

**Store**, Lansdowne, Pa. Architects, R. R.

Neely and E. William Martin, 2301 Spruce street, Philadelphia. Owner, P. Palmiri, Lansdowne, Pa. Brick, 1 story, 20x40 feet, pipeless heat, electric light, slag roof, pine floors. Architect ready for bids.

**Residence**, Highland Park, Pa. Architects, R. R. Neely & E. William Martin, 2301 Spruce street, Philadelphia. Owner, M. K. Wright, care of architect. Frame and stucco, 2½ stories, 24x30 feet, shingle roof, hardwood and pine floors, electric light, hot water heat, tile work. Plans completed. Architect ready for bids.

**Store (fire alterations)**, 406 Penn street, Reading, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. General restoration, plastering, pine floors, electric lighting, rolled steel sash, metal ceilings. Architect ready for bids.

**Residence**, Wheatland avenue, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, H. Y. Shaub, Imperial Building, Lancaster, Pa. Stone and frame, 2½ stories, 30x40 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Garage and Apartment**, 1132 Cotton street, Reading, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, Michael Kula, 1132 Cotton street, Reading, Pa. Brick, concrete foundation, 2 stories, 18x43 feet, tin roof, pine and cement floors, hot water heat, electric light, metal lath. Owner will build.

**Residences (2)**, Glen Moore, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Walter Zook, 311 North Queen street, Lancaster, Pa. Brick, stucco, 2½ stories, 28x58 feet, slate roof, hardwood floors, hot air heat, electric light. Owner will build.

**Apartments (5) (alts. and add.)**, Bushkill street, Easton, Pa. Architect, E. H. Wenzelberger, 3 Center Square, Easton, Pa. Owners, First Presbyterian Church, care of architect. Brick and frame, 4 stories, 25x14 feet, general interior alterations, slag roof, pine floors, vapor heat, electric light, partition work, new plumbing. Architect taking bids due November 15th.

**Residence**, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, H. W. Powers, President avenue and New street, Lancaster. Brick, 2½ stories, 35x28 feet, slate roof, hardwood floors, hot air heat, electric light, tile work. Plans in progress. Owner taking bids.

**Bridge No. 280 (repairs)**, over Perkiomen Creek, Rahns Station, Pa. Engineer, Warren Cressman, Court House, Norristown, Pa. Owners, Montgomery County Commissioners, R. A. Hatfield, president, Norristown, Pa. Owners taking bids due November 15th at 11 A. M.

Contract awarded Milton W. Young, 2037 North Sixth street, Philadelphia.

**High School**, Springfield, Montgomery County, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, School Board of Springfield, Montgomery County, Pa. Contract awarded Chester Cont. & Const. Co., Chester, Pa., \$144,728. Electric, Enterprise Elec. Co., 239 North Tenth street, \$5,621. Plumbing, Crisman & Quillman, Norristown, Pa., \$12,700. Heating and ventilating, J. H. Hutchinson, 1030 Callowhill street, Philadelphia, \$22,689.

**Garage and Service Station**, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Herr & Company, 218 West Orange street, Lancaster, Pa. Steel and concrete, 3 stories and basement, 65x150 feet, slag roof, concrete, steel and wood floors, freight elevator, electric light, metal lath, tile and marble work, rolled steel sash, fire doors, ornamental iron work. Contract awarded to J. Wickersham, Breneman Building, Lancaster, Pa.

**School Building**, Montgomery Township, Pa. Architects, C. E. Schermerhorn & W. K. Phillips, 430 Walnut street, Philadelphia. Owners, Board of Education, Montgomery Township, Pa. Brick, stone, 1 story, 72x84 feet (heating, lighting, plumbing reserved), slate or shingle roof, pine and cement floors. Contract awarded H. Shallcross, Gratersford, Pa., \$27,256. Plumbing, Snowden Brothers, 5028 Sansom street, Philadelphia, \$2,349. Heating, American Heating & Ventilating Co., 200 North Fifteenth street, Philadelphia, \$3,300. Electric, C. M. Reilly, Ambler, Pa., \$322.

**Residence**, Elkins Park, Pa. Architects, Andrew J. Sauer Co., Denekla Building, Philadelphia. Owners, Mr. and Mrs. Edwin H. Silverman, care of architect. Brick, stucco, cut stone, 2½ stories, 52x42 feet, hot water heat, electric light, tile and marble work, metal lath iron work, shingle roof, linotile, oak and pine floors, linoleum, metal weather strip. Contract awarded William J. Ryder, 1718 Sansom street, Philadelphia.

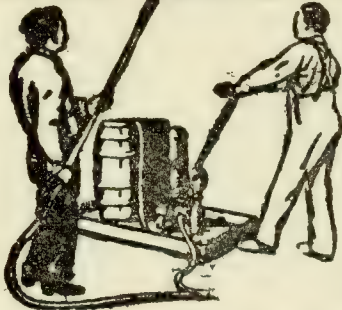
**Residences (6)**, Aldan Heights, Pa. Architects, MacKensie & Wiley, Liberty Building, Philadelphia. Owners, Aldan Heights Development Co., P. K. Jenson, 37 South Ninth street, Philadelphia. Frame and stucco, 2 stories, 24x32 feet, electric light. Contract awarded George D. Gehring Co., 5735 Warrington avenue, Philadelphia, who is taking sub-bids.

**Residences (2)**, No. 53-54, Merion, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone and frame, 47x27 feet (plumbing, heating and electric reserved), shingle roof, oak and pine floors, tile work. Contract awarded J. E. Kearney, 34 South Sixteenth street, Philadelphia.

**Office (add.)**, Jenkintown, Pa. Architect, Lawrence Visscher Boyd, Harrison Building, Philadelphia. Owners, Philadelphia Suburban Realty Co., care of architect. Stone, 1 story, 65x40 feet, slag roof, iron work. Contract awarded W. J. Stevens, Wyncote, Pa.

**Bridge No. 49**, State Road, Media to Marple, Springfield Township, Delaware County, Pa., \$115,000. Engineer, R. J. Aydlotte, County Engineer, Media, Pa. Owners, Commissioners of Delaware County, Media, Pa. Contract awarded F. J. Boas, 201 South Broad street, Philadelphia.

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## Pennsylvania

### Contracts Awarded

**Residence and Garage**, Overbrook, Pa. Architect, Joseph Lowery, 366 Land Title Building, Philadelphia (also care of architect). Owner, Charles Clifton, Buffalo, N. Y. Stone, 2½ stories, 48x32 feet, wing 24x21 feet, garage, 1 story, 22x24 feet, hot water heat, electric light, shingle roof, hardwood and pine floors, electric light, tile and marble work.

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**Road Work, Pennsylvania.** Owners, State Highway Department, Harrisburg, Pa. Fayette County, Application 874, Fayette City Borough and Washington Township, \$15,054.90. Contract awarded to Philip Di Renzo, Fayette City, Pa.

## New Jersey Construction News

**Church (add.),** North Warren street, Trenton, N. J., \$50,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Second Presbyterian Church, Rev. John McNab, 139 North Warren street, Trenton, N. J. Brick, stone, 1 story and basement, 60x70 feet, slag roof, maple floors, heating extension, electric light, metal lath, tile and marble work, rolled steel sash, roof ventilators. Plans in progress.

**Court House,** South Broad and Market streets, Trenton, N. J. Architects, W. W. Slack & Sons, St. Regis Theatre Building, Trenton. Owners, Board of Freeholders of Mercer County, E. E. Margerum, Court House, Trenton, N. J. Stone, 3 stories. Preliminary plans in progress.

**Garage,** Brunswick avenue, Trenton, N. J. Architect, private plans. Owners, Quinty's Garage, 346 Brunswick avenue, Trenton, N. J. Brick, steel, 2½ stories, 50x117 feet, slag roof, concrete and wood floors, electric light, hollow metal sash, fire doors, floor hardener. Owner ready for bids.

**Residence (alts. and add.),** Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, R. J. Carey, 179 Cooper street, Trenton, N. J. Brick, stucco, 2½ stories, 17x60 feet, slag roof, pine floors, hot water heat, electric light, metal lath, tile work, general interior alterations. Architect taking bids due November 21st.

**Residences (8),** Laurel Place, Trenton, N. J., \$32,000. Architect, private plans. Owner, W. H. Hayes, 659 Edgewood avenue, Trenton, N. J. Frame and stucco, 2½ stories, 14x42 feet, slate roof, pine floors, electric lighting. Owner will build.

**Alterations and Additions,** 505-511 Arch street, Camden, N. J. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, name withheld. Brick, slow burning, steel, 2 stories, 66 feet, 3 inches x 159 feet, irregular, slag roof, pine floors, metal lath, fire doors, ornamental iron work. Architect taking bids due November 16th at noon.

**Store, Apartment and Garage,** Hamilton avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, J. Miller Heidweiler, 30 Division street, Trenton, N. J. Brick, frame, 3 stories, 22x60 feet and 25x30 feet, slag roof, pine and concrete floors, electric light (heating and plumbing reserved), tile and marble work, plate glass, floor hardener. Architect taking bids due November 19th.

**Grade School,** Toms River, N. J. Architect, Clinton B. Cook, Asbury Park, N. J. Owners, Board of Education, Toms River, N. J. Brick and steel, 2 stories and basement, 212x72 feet, slag roof, composition and cement and maple floors, hollow tile, metal lath, tile work. Owners taking bids due November 15th.

**Bridge,** over Mullica River, Lower Bank, Atlantic and Burlington Counties, N. J. Architect, private plans. Owners, Joint Ownership Atlantic County Board of Freeholders, F. Willets, Clerk, Guarantee Trust Building, Atlantic City, and Burlington County Board of Freeholders, A. Adams, Clerk, Court House, Mt. Holly, N. J. Reinforced concrete. Plans in progress.

**Bridge,** over Bass River, between New

Gretna and Tuckerton, Burlington County, N. J. Engineer, John L. Vogel, 772 Broad street, Newark, N. J. Owners, State Highway Commission, A. Lee Grover, secretary, State House, Trenton, N. J. Concrete and steel bridge, 40 feet, 6 inches, single leaf bascule span, 30-foot roadway. Removal of present concrete bridge. Owners taking bids due November 27th at noon.

**Road Work, New Jersey.** Owners, State Highway Commission, A. Lee Grover, secretary, State House, Trenton, N. J. Route 15, Section 5, Millville to Menantico Creek in the County of Cumberland. 7,756 cubic yards excavation, 5,126 cubic yards borrow, 38,600 square yards reinforced concrete pavement, 19,787 square yards gravel shoulders. Owners taking bids due November 27th at noon.

**Highway Bridge,** over Raritan River, between Perth Amboy and South Amboy, N. J., \$3,000,000. Engineers, W. G. Sloan and Clarence W. Hudson, Trenton, N. J. Owners, State of New Jersey, State Highway Commission, A. Lee Grover, secretary, State House, Trenton, N. J. Owners taking new bids due November 27th.

## New Jersey Contracts Awarded

**Central Office Building,** Merchantville, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware & Atlantic Telegraph & Telephone Co., care of Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, concrete, cut stone and steel, 3 stories, 69x54 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, hollow metal sash, bond. Contract awarded Monaghan & Losse, 3016 Chestnut street, Philadelphia.

**Bell Telephone Building,** Princeton, N. J. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware & Atlantic Telegraph & Telephone Co., care of Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, 2 stories and basement, 96x33 feet, steam heat, electric light, metal lath, tile and marble work, glass, slate skylights, bond, slate roof, composition and cement floors. Contract awarded Mathews Const. Co., Princeton, N. J.

**Church,** South Camden, N. J. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Christ Lutheran Church, Rev. S. K. Kister, 2855 North Constitution street, Camden, N. J. Brick, steel, cast stone, 2 stories and basement, 60x48 feet, slate and tin roof, electric light, metal lath, pine and cement floors, artificial stone, iron work. Contract awarded E. J. Kreitzburg, 1345 Arch street, Philadelphia.

**Residence,** Washington, N. J. Architect, E. H. Wenzelberger, 3 Center Square, Easton, Pa. Owner, J. Cornish, Washington, N. J. Brick, 2½ stories, 44x32 feet, slate roof, hardwood floors, electric light, vapor heat, tile work. Contract awarded to F. Apgar, Washington, N. J.

**Residence,** Washington, N. J. Architect, E. H. Wenzelberger, 3 Center Square, Easton, Pa. Owner, H. P. Humphrey, Washington, N. J. Brick, 2½ stories, 44x32 feet, slate roof, hardwood floors, electric light, vapor heat, tile work. Contract awarded to F. Apgar, Washington, N. J.

**Show Window (alts. and add.),** 1127 Broadway, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, H. J. Dudley, 1127 Broadway, Camden, N. J. General interior alterations. Contract awarded to L. F. West, 828 Broadway, Camden, N. J.

**Residences (2),** 219-221 Newell avenue, Trenton, N. J., \$8,000. Architect, private plans. Owner, Josephine Swick, 113 Newell avenue, Trenton, N. J. Frame, 2½ stories, 14x40 feet, slate roof, pine floors, electric lighting. Contract awarded to James A. R. Bole, 83 Beechwood street, Trenton, N. J.

## Miscellaneous Construction News

**Laboratory Equipment,** Junior and Senior High School, Roanoke, Va. Architect, Joseph Margolis, 1505 Race street, Philadelphia. Owners, Board of Education, Roanoke, Va. Plans in progress.

**School,** Newark, Delaware. Architect, private plans. Owners, Delaware School Auxiliary Association, Dupont Building, Wilmington, Del., and Board of Education of Newark, Del. Dr. W. H. Steel, president, Newark, Del. Brick, concrete, semi-fireproof, 2 and 3 stories, 170x118 feet (plumbing, heating, electric work separate bids). Owners taking bids due November 28th at 2 P. M.

**Hall of Chemistry,** Morgantown, W. Va. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, West Virginia University, care of State Board of Control, J. Slakin, Charleston, W. Va. Brick, limestone, granite and steel, 4 stories, 305x79 feet, slate roof, tile, marble, terrazzo, composition and cement asphalt floors, iron work and stairs, metal lath (heating, plumbing, lighting and ventilating separate bids), hollow tile. Owners taking bids due December 28th at 3 P. M.

## Miscellaneous Contracts Awarded

**Residence,** Tacoma Park, Md., \$12,000. Architect, Thomas B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Walter D. Labert, Anacostia, D. C. Stucco and bishop board, 2½ stories, irregular, 31x30 feet, with wings, asphalt shingle roof, hardwood floors, electric light, vapor heating. Contract awarded Leppo & Stanley, Harlan Place, Tacoma Park, D. C.

## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 29, 1923. Sealed Proposals will be opened in this office at 3 P. M., November 27, 1923, for the construction of a one-story brick and tile non-fireproof Post Office building, approximately 62 by 64 feet in size, at Gallipolis, Ohio. Drawings and specifications may be obtained from the Custodian of the site at Gallipolis, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Nov. 12, 1923.—Sealed Proposals will be opened in this office at 3 P. M., Dec. 10, 1923, for remodeling at the United States Post Office at Allentown, Pa. Drawings and specifications may be obtained from the Custodian at Allentown, Pa., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.



**GOVERNOR'S MANSION  
AT  
KANAWHA, DUFFY AND  
VIRGINIA STREETS  
CHARLESTON, WEST VIRGINIA  
NOTICE TO CONTRACTORS**

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 2.00 P. M., Friday, December 28, 1923, for the furnishing of all labor and materials of every kind necessary in the completion of the building described below, according to the plans and specifications of Walter F. Martens, Architect, Charleston, W. Va.

The building is to be 73 ft. 6 in. x 81 ft. 2 in., with a service wing 58 ft. x 17 ft., and with additional areas for porches; semi-fire-proof construction; two stories high, with half basement and attic; walls brick, hollow tile; exterior walls faced with Colonial Red Brick; Vermont Marble and Indiana Limestone trim; slate roofing; built-up roofing on decks; structural steel and steel lumber; tile floors in halls, baths, toilets and porches, oak floors elsewhere; wood stairs on steel frames; trim Birch, Oak and Poplar; metal lath; Gypsum and cement plaster; wood sash, frames and doors; electric wiring, conduit system; inter-communicating telephone system; plumbing; vapor steam heating system; incinerator; vacuum cleaner.

Plans, specifications and blank form for bids will be mailed by the State Board of Control, when request is accompanied with check for \$25.00, which amount will be **REFUNDED ONLY ON RECEIPT OF BONA-FIDE BID** on or before the time named above, and the return of the plans.

Bids to be accompanied with certified check payable to the State Board of Control for an amount equal to 1% of the bid, as guarantee of good faith.

**STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, Kanawha County, W. Va.**

**HALL OF CHEMISTRY  
WEST VIRGINIA UNIVERSITY  
MORGANTOWN, WEST VIRGINIA  
NOTICE TO CONTRACTORS**

Sealed proposals will be received by the State Board of Control, at its office in Charleston, W. Va., until 3.00 P. M. Friday, December 28th, 1923, for doing all work and furnishing all material necessary to complete the building described below, according to the plans and specifications, and the addenda thereto, prepared therefor by Paul A. Davis, 3rd, & Dunlap, Architects, Philadelphia, Pa.

The building is to be 305 ft. 7 in. x 79 ft., four stories, with basement and attic, with extension of one story and basement. Fire-proof construction except main roof, which is steel, wood and slate. Exterior of face brick with Indiana Limestone trimmings. Interior brick finished walls. Concrete ceilings. Interior wood finish of Oak. Interior partitions brick and tile. Stairs iron. Entrance vestibule marble and plaster. Floors of terrazzo, marble, tile, composition, cement and asphalt.

Plans and specifications, and blank form for bids will be mailed by the State Board of Control when request for plans is accompanied with check for \$25.00, which amount will be **REFUNDED ONLY UPON RECEIPT OF BONA-FIDE BID AND CERTIFIED CHECK**, on or before time named above, and

return of plans and specifications.

**STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, Kanawha County, W. Va.**

(Continued from Page 724)

too, the rich man sees a villa or a palace abroad, and because it costs more to build, and looks it, he must have it reproduced here—the Palazzo Massimi on Fifth Avenue, a Tudor mansion on Long Island, a Brittany farm-house in Westchester. Of course structural methods in the domestic field have not changed so radically as they have in larger building; it is not, perhaps, so heinous an offense to build a modern brick house in imitation of an old one. However that may be, our most living—if not livable!—domestic work is to be found in the model-housing industrial villages, where rigorous elimination of waste and the need for quantity production have prevented the aping of a long-dead craftsmanship, and simple, good effects have had to be obtained by the use of machine-materials, "untouched by human hand." In the same way, the noticeable increase in restraint and "good taste" in the speculatively built apartments in New York, which has received favorable comment in many quarters, has not been at all due to an increase in good taste, but to the prohibitive cost of gimcrackery.

Economic forces will thus in time bring about a new architecture aesthetically, as they have already done structurally, replacing mass and shadow by surface and silhouette. Proportion, the basic factor of good design, will always remain the chief factor. However good proportion and its concomitant, good "scale," are not absolute, as the academicians like to think, but depend on inter-related relationships—the size and shape of the building, the relation of its many parts to the human figure and human needs, the materials used, and the system of construction. Good classic, gothic, and steel proportions are very different things, although many architects seem to think they are interchangeable. A rhinoceros skin does not fit a giraffe, nor even a cow, though all are mammals.

When modern structural methods are followed out to their logical conclusion, the results are progressive and interesting architecture. When eclectic aestheticism is followed, when "art" is the inspiration, the result is only pretense and puerile copying. Only from a building which answers inevitably to our modern needs do we get a modern emotion, a feeling of hardness, steel, vibration, discordant beauty, an emotion satisfying to our modern spirit. It is not beauty as the Greeks understood beauty, nor emotion as the builders of Chartres understood emotion, but it is life as it is understood today.

We need fewer artists and more architects; less art and more architecture. When we finally get that, we shall not need to look either humbly or reverently toward Athens, Rome, or Paris.—*The Nation*.

**SELECTION OF TYPES OF ASPHALT PAVEMENTS WITH  
REFERENCE TO LOCAL  
MATERIALS\***

*By ROY M. GREEN, Manager, Western Laboratories, Lincoln, Neb.*

*Importance of Street Pavement Problem*

During the year 1921 over \$120,000,000 was expended for the improvement of the streets in the 252 largest cities in the United States. During the same year the sum of \$34,742,791 was expended for sanitation and the promotion of cleanliness, and \$55,396,376 for schools in the same cities.† Over thirty-nine per cent. of all the outlay of funds in these cities was expended for highway improvement. More than twice as much was spent for street improvement as for schools and nearly four times as much for streets as for sanitation. These statistics indicate the relative magnitude of the street paving problem as compared with other municipal undertakings on the basis of financial importance.

Regardless of the manifest importance of this problem in every city in the United States we still find the laymen of the various cities, through their city councils, or commissions, feel justified in taking from the hands of their engineers the important problem of the selection of the type of pavement to be used in any location. The success of the street system, as a transportation medium, is entirely dependent upon this selection, yet many members of city council feel themselves qualified to select the type of pavement to be used. These same men would hesitate to even make a recommendation regarding the design of a sewer or water-supply system where much less money is involved in the enterprise.

*Authority of Engineer*

Although it is manifestly a fact that this authority should be vested in the Engineer, we are still confronted with the condition, in many states, where the law delegates this authority to the city council, or even worse, to the abutting property owners within the district to be paved. Without any question, this reacts against the best interests of the public and results in improper selections in

\*Paper read before the recent Asphalt Convention at Denver, Col.

†From "Financial Statistics of Cities for 1921," U. S. Department of Commerce, Bureau of Census.



many instances, and is one of the greatest contributing causes of the short average life of pavements.

Since the Engineer does not have this authority it would seem, at first thought, that a discussion of the selection of types of asphalt pavements with reference to local materials is a waste of time at a meeting of engineers, but this is not true.

Even though the Engineer is confronted with this condition, he still has great authority in making the selection of type through the fact that he still has practically unlimited authority in the drafting of the specifications for the work contemplated. Let us call this, selection of type by specifications. Unfortunately the Engineer too often overlooks the fact that he has this authority and hastily draws up his specifications by simply adopting the standard specifications of one of the national agencies that have adopted such standards, never realizing that his client may suffer great financial loss through such procedure.

There is never a locality where one of the asphalt pavement types does not have a superior economic advantage over all others on account of the availability of some source, or sources of supply of local materials. In some cases these local materials may be of such a nature that they will not meet the requirements of the specifications of the American Society of Municipal Improvements or of the Asphalt Association. I do not wish to be understood, however, as critising these specifications, because I most heartily approve of them, and especially those of the Asphalt Association, which I consider as the best group of standard specifications that have ever been prepared, but I do wish to bring out the fact that the blind use of standard specifications is poor engineering and results, in many cases, in higher costs to the owner without a corresponding improvement in the quality of the finished product. On the other hand, it is likewise very poor engineering to specify for the use of local materials without first making a very thorough investigation of these materials. Furthermore, such an investigation should not simply include the usual laboratory tests of these materials but should embrace a thorough examination of the deposits, method of production, quantity and uniformity as well as quality of the material itself. These investigations should be carried on only by persons who are thoroughly qualified, through years of experience in the construction of asphalt pavements, for if they are not, the entire expenditure of the owner's money is then being placed upon an experimental basis, which is a condition never justifiable under any circumstances.

If this procedure is followed it will be possible for the Engineer to exercise

great influence in the selection of type with reference to local materials if he makes a thorough investigation of the availability of materials of all kinds and then makes sure to include in his specifications a description of the type that can be constructed by using the greatest quantity of low priced material of a quality that is entirely satisfactory for the purpose intended. As soon as bids are received under these specifications the price bid on this type should be low enough to make the selection almost inevitable.

#### *Abuse of Selection by Specification*

Allow me to take two illustrations from cases that have come to my attention in our practice. In one city an engineer asked for bids upon sheet asphalt and asphaltic concrete, coarse aggregate type, (in this case called Bitulithic). The specifications for the large aggregate for the asphaltic concrete showed the use of a very inferior grade of broken stone and as a result an aggregate was used having a toughness of only four when tested by the Page Impact Machine. To have obtained satisfactory large aggregate of broken stone for this work would have required its being shipped for a distance of over 500 miles and from another State at a very high freight rate.

On the other hand the large aggregate for use in the binder course of the sheet asphalt was described in such a way that it required an aggregate of a toughness of 10 and a French co-efficient of wear of not less than eight and made it necessary to ship this material a distance of over 500 miles while there were good commercial deposits of gravel containing materials that would have been entirely satisfactory for that purpose within a distance of less than 50 miles. All other aggregates entering into the construction of sheet asphalt pavement were even nearer than this with the exception of the stone dust for filler. The Engineer either abused the privilege of selection by specifications and deceived the owner's confidence and wasted their money or he was ignorant. In this case, I believe that it was the former because he specified also that the binder for the sheet asphalt should contain 7 per cent. of limestone dust. The city is no longer a client of the engineer.

#### *Proper Use of Selection by Specification*

On the other hand, let us consider another illustration, where specifications were drawn with the intention of utilizing available materials to the greatest advantage. The City, through their engineer, adopted a specification, which incidentally is not in accordance with any of the standard specifications for large aggregate for binder construction, but is good practice and has been demonstrated as being satisfactory for the work con-

templated. Through the use of these specifications, instead of the adoption of one of the standard specifications, the most economical selection was apparent to any unprejudiced party and resulted in the saving of approximately \$50,000 on a two year paving program and the quality of the work did not suffer in the least detail. All the aggregates for this work were obtained within 5 miles of the improvement with the exception of the limestone filler.

In closing, however, I wish to again sound the word of warning against the adoption of any local materials or special specifications unless their adoption is thoroughly investigated by one who is unquestionably qualified to pass judgment upon their utilization for the work contemplated as it would be a serious error in policy to place the expenditure of public money, in such great quantities, upon an experimental basis and it would react against the best interests of all concerned in the construction of roads and pavements.

On the other hand I wish to draw your attention to the economic value of making thorough investigations of all sources of supply of materials for utilization in the construction of asphalt pavements.

### CHECKING BANDITRY BY CHECK PAYMENTS

#### *Armed Guards for Cash to Meet Payroll Serve Often Only as Advertisement of Possible Loot*

BY HENRY F. WOODS

Within a year, it is estimated, thirty-two lives have been lost and \$1,500,000 in cash stolen in attacks on payroll escorts. This is a rather steep loss in lives and treasure when it is considered that it might have been prevented.

From time to time suggestions have been put forth tentatively for a way of preventing attacks by payroll bandits and have been adopted by some of the great business concerns. Recently, the great increase in payroll robberies, with the attending violence and the frequent loss of their lives, roused Police Commissioner Enright of New York City to renew the suggestion that payments of salaries and wages by checks instead of cash would be an effective means of prevention.

Commissioner Enright advocated the system vigorously and with logical arguments for its general adoption, citing the fact that armed escorts for the payroll cash transported through the streets in daylight from banks to business offices were no deterrent of this form of banditry, but that, on the contrary, the very sight of armed guards was plain notice to crooks that cash was being convoyed.

#### *Murder Employed*

Criminals who specialize in these



attacks are of the boldest and most desperate class, who do not stop at murder when a rich haul is in sight, and the crowded conditions of the streets is really an aid to them in their surprise attack and in their escape with the booty. For these reasons, Mr. Enright argues the one effective way to circumvent them is to meet the payroll with checks.

The system he advocated has since been endorsed by more than a score of the police heads in the largest cities in the United States and Canada. A questionnaire sent out recently to Police chiefs of Philadelphia, Boston, Baltimore, Washington D. C., Detroit, St. Louis, Kansas City, San Francisco, Milwaukee, Indianapolis, Omaha, Salt Lake City, Portland, Oregon, Montreal, Toronto, and other large cities developed that, without exception, all those who answered believed that to pay by check instead of by cash is an effective and a workable means of preventing payroll holdups.

In several instances, support of the system was given with reservations, notably that the checks drawn to meet the payroll should be adequately protected against the operations of forgers, raisers, and other check swindlers. This factor was considered by companies that have adopted the plan, and the use of special forgerproof paper and check-writers that shred the written amount of the check through the paper fiber in ineradicable ink of two colors is considered to have shorn of its force the one objection indicated.

If the plan had been found wanting in effectiveness and discarded after a trial it would not be difficult to understand why its advantages have not been more readily appreciated and the plan itself more generally adopted. But it has been adopted and in operation for several years by some of the greatest business concerns in this and other countries. In conservative England it has long been in use at "Port Sunlight," the famous soap works of the Lever Brothers, where its use has been made an effective promoter of thrift among the employees.

The viewpoint of police chiefs is of course that the check system is a preventive of crime, and necessarily this is the greatest argument for it. But in practice it has been found to be effective as well as promoting economy, efficiency, and thrift among the employees.

Some ideas may be gained of the great opportunities afforded payroll bandits when we consider that, according to the latest Bureau of Census statistics there are an average of 6,896,190 wage earners employed in the United States and that the total of wages paid annually in this country is eleven billion dollars. The

total of both employees and wages is greater even than this, for the statistics compiled by the Bureau relate only to those industrial establishments having an annual production value in excess of \$5,000.

#### *Is a Cheaper Method as Well*

Among advantages of the pay-by-check system other than its main factor of safety, the first in the list is that of economy, for there is dispensed with the need of providing insurance for a cash payroll, and also the need of guards to protect it on transfer through the streets. A second saving lies in the increase in the bank balance of those firms paying by checks for as payroll checks frequently pass through many hands before they are finally presented for payment, the delay of course permits of the use of the money for a longer period than when payments are made by cash.

It is the experience of most firms paying by check that the system requires fewer clerical workers than the cash payment method and is less susceptible to errors. Mechanical devices for speeding up the process and minimizing the chances of errors have been utilized by many of the firms paying by check and have effected an additional saving in time and expense. This is especially the case with those concerns having large payrolls and where the work of paying off extends over a period of several days in the week.

#### *Cashing Must Be Easier*

Two arguments mentioned against adoption of the pay check have been the possible reluctance of banks to accept it and the objection of employees. If any real basis for the first objection ever existed, it seems to have disappeared, for many of the banks have not only accepted the plan but have made special efforts to co-operate with employers in making it a success. The most recent and notable instance of this co-operation is furnished by the Corn Exchange National Bank of New York, one of the greatest banking institutions of the country, which has established a special payroll service for paying employees by check.

Under this service employers give their employees special checks designated as pay checks which may be cashed at any one of the fifty-three branches of the Corn Exchange Bank in New York. Each branch is provided with signature copies of the employees' names, in order that identification may be made simple. A special pay-check window is maintained, and these pay-check windows are open from 9 A. M. until 5.30 P. M., including Saturdays. This arrangement is an extra banking service for the special convenience of employees.

#### *Removes Objections*

Such co-operation by the banks re-

moves to a large extent the ground for the objection of employees to it as inconvenient. Those employers who have adopted the pay check system have endeavored to meet the same objection by methods varying according to local conditions. In some instances the checks are made payable "to bearer" or "to order," so that they may be cashed without inconvenience. In other cases the checks are made payable to the employee by name, and arrangements are made with the local banks to cash them without other identification than the signature of the payee made in the presence of the teller, or by a showing of the workman's badge with a number to correspond to the employee's number on the check.

Where opposition was expressed at first by employees, it has been the experience of firms that it has gradually subsided and that the system in time comes to be preferred, even by the workers themselves, to the old method of paying by cash. As their familiarity with the simple process of cashing their checks at a bank grows, they lose their distrust of or timidity with banks and realize the advantages of having business relations with them.

#### *Starts Habit of Thrift*

This is to the advantage of the banks as well as of the employees and is, in fact, the beginning of the thrift habit with many who would not otherwise have been led to start a bank or a savings account. This habit is encouraged by some of the companies, which obtain permission of their employees to deposit their salaries or wages in any one of the local banks designated by them. In such cases the company forwards to the bank lists of the amounts to be credited to each employee, at the same time enclosing a check to cover the total. The employee, at his convenience, takes his bank book to the bank and has the amount to his credit entered in it. Thus he is saved the inconvenience of having to deposit or cash his pay check and, at the same time, is established with a bank account against which he can draw to pay bills or to provide himself with cash for his current needs.

Summing up the case for payments of wages by checks, it may be said to possess these undoubted advantages: the prevention of payroll holdups; security against loss, especially when the approved precautions are taken to safeguard checks by the use of effective check-writers and forger-proof paper; economy of office operation in saving of time, of errors, and of interest on balances; convenience to the employee in providing a safe place for his funds against losses by fire and robbery; and the promotion of habits of thrift.

—American Contractor.



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Artesian Well Drilling Co.,  
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Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

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Weil, J. H., Co. ....1315 Cherry St., Phila.

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Weil, J. H., Co. ....1315 Cherry St., Phila.

## BOILER AND PIPE COVERINGS.

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## BUILDERS' SUPPLIES.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ..24th and Callowhill, Phila.

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Knickerbocker Lime Co. ..24th and Callowhill, Phila.

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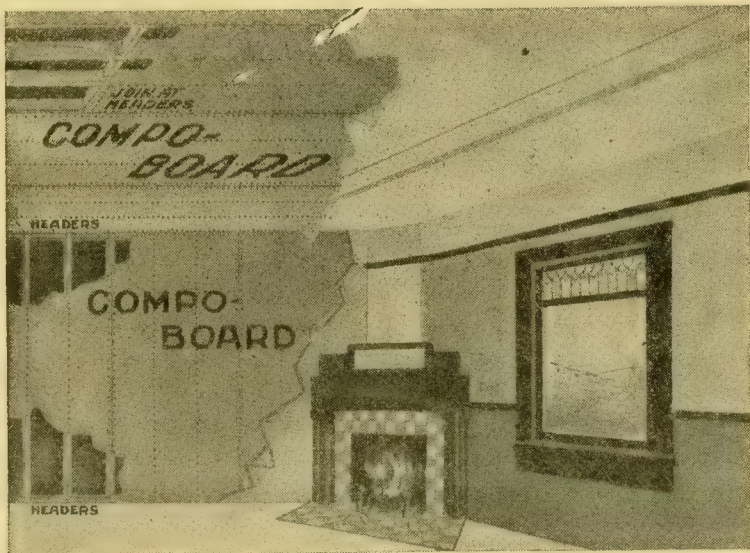
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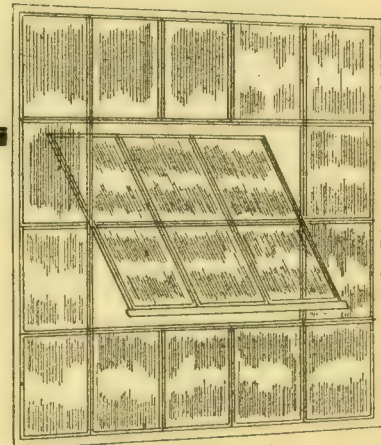
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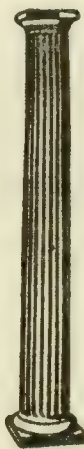
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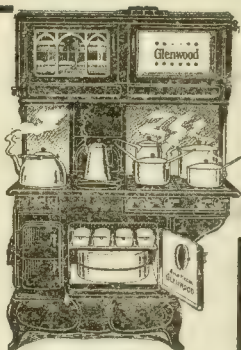


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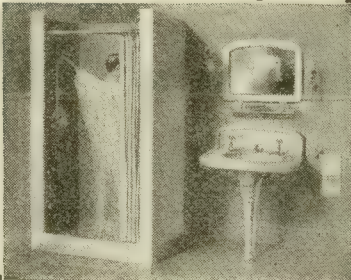
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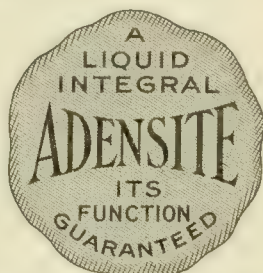
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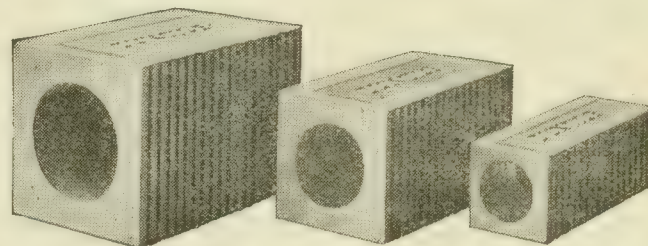
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 47

PHILADELPHIA  
November 21, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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### SUBSCRIPTION RATES

To all points in United States.....\$5.00 a year  
To all points in Canada..... 5.50 a year  
To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

Subscriptions not discontinued at expiration  
unless so ordered

Entered at the Post Office at Philadelphia as  
Second Class Matter



## As The Editor Sees It



### ANNOUNCEMENT OF PERSONNEL OF AMERICAN CONSTRUCTION COUNCIL'S COMMITTEE ON APPRENTICESHIP, VOCATIONAL GUIDANCE AND CRAFTSMANSHIP

Recently the American Construction Council announced the creation of a committee on Apprenticeship, Vocational Guidance, and Craftsmanship with Mr. F. W. Walker, secretary of the Associated Tile Manufacturers, Beaver Falls, Pa., as its chairman, stating that the complete personnel of this committee would be announced shortly. This committee co-operates with employees' and employers' organizations, building congresses, and all other elements in the construction industry, and with educational bodies, local and national, in providing for apprenticeship which will be attractive to young men and will afford the fullest means for the employment and training of efficient workers as apprentices, and will produce the skilled workmen needed in the construction industry.

The following individuals have been appointed to serve on the committee on Apprenticeship, Vocational Guidance and Craftsmanship of the American Construction Council. In addition, various national associations of employers, manufacturers and professional bodies, as well as the various trades and crafts representing labor in the industry, have

been invited to nominate representatives on this important committee of the Council. The individuals and organizations thus invited will help in the further development of apprenticeship in the construction industry through the appropriate agencies of the Council co-operating with all organizations within the industry. Any other association that feels it is vitally interested in this subject is invited to write the Council suggesting names to be considered for membership on the committee.

A meeting of the committee as a whole will be called very shortly, probably in Buffalo, the week of December 6th.

#### *Individuals Invited to Serve on American Construction Council's Committee on Apprenticeship, Vocational Guidance and Craftsmanship*

James Baird, New York, N. Y.; Chas. F. Bauder, Philadelphia, Pa.; E. L. Bowman, Evansville, Ind.; Howard L. Briggs, Cleveland, Ohio; H. Whittemore Brown, Hampton, Va.; Professor W. W. Charters, Pittsburgh, Pa.; Wharton Clay, Chicago, Ill.; R. L. Cooley, Milwaukee, Wis.; Col. John W. Cowper, Buffalo, N. Y.; George Dautel, Cleveland, Ohio; John Donlin, Washington, D. C.; F. L. Dykema, Grand Rapids, Mich.; Burt L. Fenner, New York, N. Y.; R. C. Gaskill, Atlantic City, N. J.; Col. Frank M. Gunby, Boston, Mass.; Lewis Gustafson,

St. Louis, Mo.; Fred J. Hartman, Pittsburgh, Pa.; Dr. L. S. Hawkins, Chicago, Ill.; Warner S. Hays, Philadelphia, Pa.; Mr. Malcolmson, Detroit, Mich.; G. A. McGarvey, Washington, D. C.; A. H. McGhan, Washington D. C.; James S. Meade, Philadelphia, Pa.; Fred F. Moran, New York, N. Y.; W. Stanley Parker, Boston, Mass.; Thomas R. Preece, Indianapolis, Ind.; C. A. Prosser, Minneapolis, Minn.; H. H. Rosenberg, Chicago, Ill.; Ralph P. Stoddard, Cleveland, Ohio; M. F. Westergreen, New York, N. Y.; L. C. Wason, Boston, Mass.; R. Winsead, Chicago, Ill.; Edward L. Wertheim, New York N. Y.; J. C. Wright, Washington, D. C.

#### *Ex-Officio*

Franklin D. Roosevelt, New York, N. Y.; D. Knickerbacker Boyd, Philadelphia, Pa.; Dwight L. Hoopingarner, New York, N. Y.

#### *National Associations and International Unions Invited to Nominate Representatives to Serve on American Construction Council's Committee on Apprenticeship, Vocational Guidance and Craftsmanship*

American Face Brick Association, Associated General Contractors of America, Associated Metal Lath Manufacturers, Associated Tile Manufacturers, Common Brick Manufacturers' Association, Concrete Products Association, Copper and

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Brass Research Association, Contracting Plasters' International Association, Federated American Engineering Societies, Gypsum Industries Association, Heating and Piping Contractors' National Association, Hollow Building Tile Association, Indiana Limestone Quarrymen's Assn., International Cut-stone Contractors and Quarrymen's Assn., National Terra Cotta Society, National Lumber Manufacturers' Assn., National Building Granite Quarries' Assn., National Association of Marble Dealers, National Lime Association, National Association of Bldg. Trades Employers, Nat. Asso. of Building Owners and Managers, National Association of Real Estate Boards, National Association of Sheet Metal Contractors, National Association of Electrical Contractors and Dealers, Southern Pine Association, Amalgamated Sheet Metal Workers' International Alliance, Brotherhood of Painters, Decorators and Paperhangers, Bricklayers, Masons and Plasterers' International Union, Granite Cutters' International Association of America, International Association of Heat and Frost Insulators and Asbestos Workers, International Association of Bridge and Structural Iron Workers, International Brotherhood of Electrical Workers, International Union of Steam Engineers, International Union of Wood, Wire, and Metal Lathers, International Association of Marble Slate and Stone Polishes, Rubbers and Sawyers, Tile and Marble Setters' Helpers, International Union of Elevator Constructors, Journeymen Stone Cutters' Association of North America, Plasters' Operative and Cement Finishers' International Assn., United Association of Journeymen Plumbers and Steam Fitters, United Slate, Tile, and Composition Roofers, Damp and Waterproof Workers' Association, U. S. Department of Labor, Federal Board for Vocational Education.

#### DANGER IN SEPARATE CONTRACTS

*Policy Proposed by Mechanical Trades Would Undermine Construction Work, Study Made by Associated General Contractors Shows*

The policy of awarding separate contracts for mechanical installations on Government construction, which is being urged upon the Interdepartmental Board of Contracts and Adjustments by representatives of the mechanical trades, was submitted by the Board last May to the Associated General Contractors of America with a request for analysis and opinion. Pursuant to this request, the proposed policy was referred to the Ex-

ecutive and Advisory Boards, the Presidents' Council and the local chapter of the Association, who have made an extended investigation of the subject and have rendered their reports. From the information presented in these reports, the following analysis of the policy, submitted to the Interdepartmental Board of Contracts and Adjustments by the Associated General Contractors of America, September 10, 1923, with respect to both private and public work, has been drawn.

The direct awarding of contracts for heating, ventilating, plumbing and electrical work to sub-contractors, if adopted, will mean that certain integral portions of the structure upon which other integral portions depend in both structural feature and sequence of installation are to be removed from the co-ordinating control of a centralized management, and that these portions are to be placed under the control of an agency that assumes no responsibility for cost or time of completion, namely, an architect, an engineer or a contracting officer. This feature of the separate contract, though apparently not recognized by those professional men who have favored the proposed policy on various occasions, is the most vital issue involved, and is unquestionably the most important consideration affecting the interest of a prospective construction owner, whether an individual, a political subdivision or the Federal Government.

#### *Anticipation Difficult*

The importance of the question at issue, with respect to successful construction performance and responsible service can hardly be overstated, but it is difficult for those unacquainted with the business side of construction to anticipate the results that a change of policy affecting usual contractual obligations may entail. To do so it is essential that the present system of executing construction projects through the agency of a general contractor be clearly viewed and that cognizance be taken of the service which the general construction company performs. For this reason a section of this analysis is given to a statement of the service performed by such a company, after which is stated the effects that may logically be expected to result from altering the character of this service by the use of separate contracts for mechanical equipment.

#### *Management Function of the General Contractor*

The principal function of a general contractor, when operating under the single contract plan, which has developed to meet the needs experienced by both public and private owners, consists of furnishing centralized construction

(Continued on Page 750)

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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Store and Apartment**, Northeast Corner Thirty-seventh and Chestnut streets, Philadelphia, \$18,000. Architects, Mill & Van Kirk, Harrison Building, Philadelphia. Owners, A. S. Schafer Const. Co., Shubert Building, Philadelphia. Brick, 2 and 3 stories, 30x150 feet, slag roof, composition floors, vapor heat, electric light, tile and marble work, plate glass, flush bulks. Plans being drawn.

**Residences and Garages (14)**, City Line and Old York Road, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, F. D. Williams, Sixty-sixth and Ogontz avenue, Philadelphia. Brick, 2 stories, 20x40 feet, 1 story, 20x20 feet, slag, slate and tin roof, hardwood floors, hot water heat, electric light, marble and tile work. Plans in progress.

**Warehouse and Garages**, Penn and Unity streets, Philadelphia. Engineer, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Frankford Grocery Co., Inc., Penn and Unity streets. Reinforced concrete, 4 stories, 64x89 feet, garage, 1 story, 45x100 feet. Plans in progress.

**Apartment House**, Evergreen avenue and Crefeld avenue, Chestnut Hill, \$350,000. Architect, R. R. McGoodwin, 1422 Walnut street, Philadelphia. Owners, Chestnut Hill Apartment Co., S. F. Houston, president, Real Estate Trust Building. Stone, 3 stories, 360x110 feet (30 apartments), steam heat, electric light, metal lath, tile and marble work, oak and pine floors, hollow tile, slate roof. Plans in progress.

**Parochial School and Convent**, Fiftieth and Master streets, Philadelphia. Architect, H. Rex Stackhouse, 1120 Locust street, Philadelphia. Owners, Our Lady of the Angels' Roman Catholic Church, Rev. V. A. Strumie, on premises. Brick, steel, stone, 3 stories, 60x106 feet, contains 8 class rooms, auditorium, convent building. Plans in progress. Will be ready for bids in one month.

**Apartments (5) (alt.)**, Northeast Corner Eighteenth and Vine streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Steam heat, electric lighting, tile and marble work, composition floors, plumbing, new partitions, Murphy beds. Architect ready for bids.

**Stores and Residences (7)**, C and Wyoming avenue, Philadelphia. Architect, I. W. Levin, Victory Building, Philadelphia. Owners, Fishman & Ford, 216 West Duncannon street, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work, plate glass, metal ceilings, flush bulks. Owner taking sub-bids.

**Apartment House**, Northwest Corner Forty-third and Chestnut streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, I. Newton Smith, care of architect. Brick, steel, concrete, limestone, 4 stories and basement, steam heat, electric light, tile and marble work, slag roof, hardwood and tile floors, automatic elevators, roof ventilators, iron work. Architect will take general bids about December 1st. (Note extension of time.)

**Parochial School**, Rhawn and E street, Fox Chase, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, St. Cecilia's Roman Catholic Church, Rev. J. F. Burke, on premises. Stone, brick, steel. Plans about completed. Architect will be ready for bids in a few days.

**New Store (alts.)**, 1521 Germantown avenue, Philadelphia. Architect, private plans. Owner, Joseph Shore, 541 Germantown avenue, Philadelphia. Hot water heat, electric light, metal lath, marble work, plate glass, painting and glazing, metal ceiling, flush bulks. Owner taking bids.

**Stores (2) (alts.)**, 818 North Second street, Philadelphia. Architect, private plans. Owner, Myer Weiner, Hotel Virginia, Atlantic City, N. J. Maple floors, carpentry and mill work, copper bulks, plastering, painting and glazing, hot water heat, electric light, metal lath, tile and marble work, metal ceilings. Owner taking bids.

**Playground**, Twenty-seventh and Clearfield streets, Philadelphia. Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Board of Recreation, 596 City Hall. Bond, excavating, grading, surfacing, sodding, concrete curbs and gutters, fence, painting. Ready for bids in a week.

**Stand Pipe System of Fire Protection**, Independence Hall. Architect, J. P. B. Sinkler,

Twelfth and Chestnut streets, Philadelphia. Owners, Bureau of City Property, Department of Public Works, Philadelphia. Drain piping, fire pump, water supply, wiring, pump discharge piping, valve taps, hangers and screws, cutting and patching. Ready for bids.

**Ventilation of Day Rooms**, Holmesburg, Pa. Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Charities and Correction, 592 City Hall. Roof ventilators, copper. Ready for bids.

**Improvements**, South Second street, Market, Second, Pine and Lombard streets, Philadelphia. Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Concrete and cement, granite curbing, brick and stone work, miscellaneous steel and iron work, ventilators, slag roofing, metal lath, plastering, carpentry and mill work, painting and glazing, hardware (plumbing, electric work separate bids). Ready for bids.

**Residences (49)**, Overbrook, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Mahoney, 6308 Sherwood avenue, Philadelphia. Stone and brick, 16x45 feet, 20x33 feet, slate and slag roof, central heat, electric light, metal lath, tile and marble work, cement work, hardwood floors, garages in basement. Plans in progress.

**Garage**, Fiftieth and Warrington avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Crean Brothers, care of Mr. Grant, Eighteenth and Oregon avenue, Philadelphia. Brick, electric light, steam heat, cement floors, cold water paint. Owners taking bids due November 22nd.

**Residence (alts. and add.)**, 1017 Spruce street, Philadelphia. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, Dr. S. J. Gettleson, on premises. Brick, 1 story, 18x30 feet, slag roof, hardwood and composition floors, plumbing, hot water heat extension, electric light, general alterations. Architects taking bids.

**Manufacturing Building**, Northeast Corner Thirtieth and Walnut streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, J. J. Greenberg, care of architect. Brick, concrete, steel, 6 stories, 140x94 feet, slag roof, cement floors, elevators, waterproofing, bond, iron work. Architect taking bids due November 24th at noon.

**Alterations and Additions**, 142 North Fifth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Simon Walter, Inc., on premises. Brick, 2 stories, 16x79 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, tin-lined doors, bond, metal bulks, iron work, metal ceilings, cold water painting. Owner taking bids due as soon as possible.

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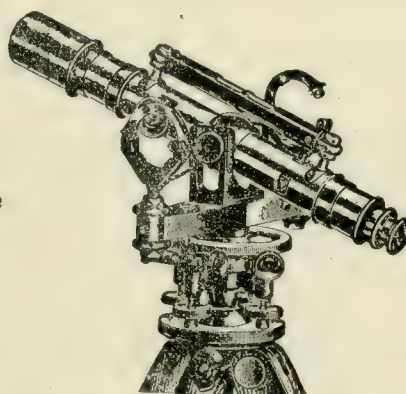
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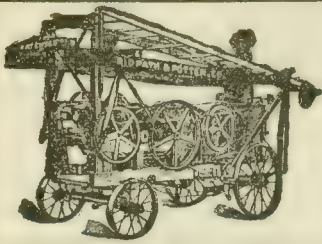
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**Garage**, South side Market street, West of Forty-eighth street, Philadelphia, \$25,000. Architect, private plans. Owner, B. W. Glover, et al., on premises. Brick, 1 story, 50x200 feet, slag roof, cement floors. Owner will build.

**Residences (6)**, South side Rittenhouse street, East of Chew street, \$12,000 each. Architect, private plans. Owner, James H. Mitchell, 4 South Farragut street, Philadelphia. Stone and brick, 3 stories, 24 feet, 8 inches x 29 feet, 10 inches, slate and tile roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Warehouse**, South side Forty-fifth avenue, East of Thirty-first street, \$300,000. Architect, private plans. Owners, Gulf Refining Co., Widener Building, Philadelphia. Reinforced concrete, 5 stories, 102 feet, 8 inches x 182 feet, 8 inches, slag roof, concrete floors, steel sash, waterproofing, elevator, steam heat, electric light. Owners will build.

**Garage**, Southeast Corner Media and Conestoga streets, Philadelphia, \$10,000. Architect, private plans. Owners, Brown & Son, 145 Fairmount avenue, Philadelphia. Brick, 1 story, 40x85 feet, 9 inches and 79x60 feet, slag roof, cement floors. Owners will build.

**Residences (15)**, North side Warrington avenue, West of Fifty-fifth, \$91,000. Architect, private plans. Owners, Evans & Law, 6012 Walton avenue, Philadelphia. Brick, 2 stories, 18x33 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Boiler House**, Pier 14, Delaware River, North of Cumberland, \$45,000. Architect, S. T. Wagner, Reading Terminal. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Steel and brick, 1 story, 53 feet, 11 inches x 153 feet, 3 inches, slag roof, cement floors. Owners will build.

**Residence**, North side Sedgwick street, West of Crittenden, \$30,000. Architect, Bailey Mercer, 4911 North Seventeenth street, Philadelphia. Owner, Albert Bauerle, 201 Bulletin Building, Philadelphia. Stone, 3 stories, 36x79 feet, 10 inches, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Store (alts.)**, 1421 Columbia avenue, Philadelphia, \$25,000. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. General alterations, new front. Owner will build.

**Residences (20)**, East side Whitaker, North

of Thelma street, Philadelphia, \$141,000. Architect, private plans. Owner, Charles Finkelstein, 725 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garage**, North side Lebanon avenue, East of Sixty-fourth street, \$5,000. Architect, private plans. Owner, Lewis Jones, Sixty-fourth and Lebanon avenue, Philadelphia. Brick, 1 story, slag roof, cement floors, 43x23 feet. Owner will build.

**Residences (3)**, East side Forty-seventh street, North of Parrish, \$5,000 each. Architect, private plans. Owner, W. C. Dean, 239 South Felton street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Apartment House (alt.)**, 439 North Thirtieth street, Philadelphia, \$4,000. Architect, E. Medoff, Lincoln Building, Philadelphia. Owner, M. Herkowitz, 1526 South Fifty-second street, Philadelphia. General alterations. Owner will build.

**Storage Building**, Southwest Corner Lewis and Ashland streets, \$4,000. Architect, private plans. Owners, John H. Meyer Co., on premises. Iron, 1 story, 42x120 feet, 36x50 feet, cement floors. Owners will build.

**Supplies**, Philadelphia. Architect, private plans. Owner, City Purchasing Agent, T. F. Armstrong, 312 City Hall, Philadelphia. Fuel oil, high speed fans, brass plates for hydraulic press, castings. Owners taking bids due November 26th at noon.

**Building (alts. and add.)**, 492 North Third street, Philadelphia. Architect, E. Hoffman, 15 South Forty-fourth street, Philadelphia. Owner, William Schmutz, 531 Race street, Philadelphia. Brick, 1 story, 67x19 feet, slag roof, cement floors, hollow metal sash and skylight. Owner taking sub-bids due as soon as possible.

**Store (alts.)**, 1015-19 Chestnut street, Philadelphia, \$3,000. Architect, private plans. Owners, 1015 Chestnut Street Corporation, on premises. General alterations, carpentry, mill work. Owners will build.

**Factory**, Shellmere and Edmund streets, Holmesburg, Pa. Architect, private plans. Owners, Electric Dev. & Machine Co., on premises. Brick and steel, 1 story, 432x84 feet, slag roof (plumbing, heating, electric reserved), cement floors, rolled steel sash, bond. Mr. Beyer, care of Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia, taking bids due November 21st.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Warehouse**, 3935-37 Germantown avenue, Philadelphia. Architects, Moores & Demford, 110 East Forty-second street, New York. Owners, Interstate Storage & Warehouse Co., on premises. Reinforced concrete and brick, steel, 7 stories and basement, 106x53 feet, steam heat, electric light, metal lath, tile and marble work, rolled steel sash and skylights, hollow metal sash, fire and kalamein doors, floor hardener, ornamental iron work, slag

roof, concrete, ceramic tile floors, hollow tile, elevators, safety treads, rolled steel shutters, dampproofing, structural concrete. Contract awarded Industrial Engr. Co., 30 Church street, New York City.

**Calling Station**, Logan Station, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Yellow Cab Co., 1208 North Thirty-first street, Philadelphia. Composition, stone, brick, stucco, 1



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story, 16x16 feet, asbestos shingle roof, cement floors, electric light, painting and glazing, iron work. Contract awarded George B. Smith & Son, 606 North Sixteenth street, Philadelphia.

**Sales and Service Station**, Broad and Bel-field avenue, Philadelphia. Architect, Philip S. Tyre, 1505 Arch street, Philadelphia. Owners, Henry & Gunkle, 4634 North Broad street, Philadelphia. Brick, concrete, steel, 1 story, 130x101 feet, slag roof, cement floors, hollow tile, galvanized iron skylights, bond, waterproofing, ornamental iron work. Contract awarded George Kessler Const. Co., 1733 North Marvine street, Philadelphia.

**Apartment House**, Northwest Corner Upsal and Wissahickon avenue, \$150,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Mrs. P. B. Mark, 333 Commercial Trust Building, Philadelphia. Stone, 4 stories, 83½x36 feet, 71x30 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to F. W. Mark Const. Co., Commercial Trust Building, Philadelphia.

**Manufacturing Building (add.)**, Northwest Corner J and Ontario streets, \$78,000. Architect, private plans. Owners, William Brown Co., J and Ontario streets, Philadelphia. Brick, 3 stories, 41x200 feet, slag roof, hot water heating. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

**Residences (2)**, North side Sedgwick street, West of Emlen, \$9,000 each. Architect, R. M. Reeve, 5539 North Third street, Philadelphia. Owner, Theo. Dimmick, 1115 Summerville street, Philadelphia. Brick, stucco, 3 stories, 18x14 feet, 23x26 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to K. G. Hickie, 2313 North Twentieth street, Philadelphia.

**Residence**, North side Levick street, West of Hasbrook street, \$9,000. Architect, private plans. Owner, Charles F. Bauer, Marvine and Columbia avenue, Philadelphia. Frame, 2 stories, 29x55½ feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to J. S. Chew Co., Grenlock, N. J.

**Residence**, Southeast Corner Napfle and Verree Road, Philadelphia, \$7,000. Architect, private plans. Owner, Richard Seasongood, Ninth and Cumberland streets, Philadelphia. Brick and frame, 2 stories, 24x32 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Jacob Hansen, Afton street and Verree Road.

**Manufacturing Building (add.)**, West side Twenty-ninth street, South of Bristol street, \$6,000. Architect, private plans. Owners, American Pulley Co., on premises. Steel tank and tank supports. Contract awarded to Chicago Bridge & Iron Co., Chicago, Ill.

**Residence and Office (alts. and add.)**, 1407-09 North Fifteenth street, \$6,000. Architect,

private plans. Owner, Fred C. Hutten, on premises. Brick, 1 story add., 19x34 feet and 16x33 feet, general alterations. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

**Bleachery Plant**, Ruan and State Road, Holmesburg, Pa. Architect, private plans. Owners, Wilmington Bleachery, J. N. Harmon, Sr., president, Market and Race streets, Wilmington, Del. Containing 38,000 feet floor space. Contract awarded Armstrong & Latta, 1926 Sansom street, Philadelphia.

**Residence**, South side Faunce street, East of Horrocks street, \$6,000. Architect, private plans. Owner, William Widman, 2328 East Sergeant street, Philadelphia. Frame, 2 stories, 25x28 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Edward G. Roberts & Son, 6000 Tacony street.

**Store and Residence (alts. and add.)**, 4814 Baltimore avenue, \$6,000. Architect, private plans. Owner, Robert McCauley, 4814 Baltimore avenue, Philadelphia. Brick, 3 stories add., 21x11 feet, general alterations. Contract awarded to F. C. Borel, Jr., 5425 Summer street, Philadelphia.

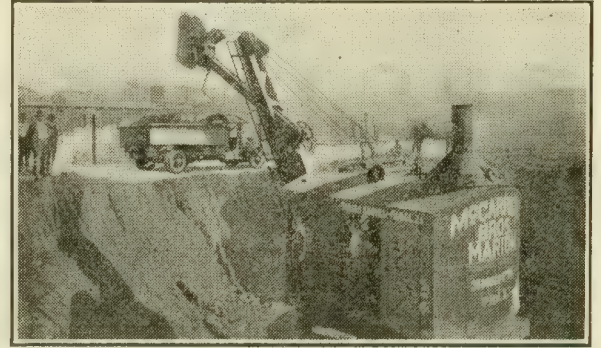
**Store (alts.)**, Northeast Corner Tenth and Arch streets, Philadelphia, \$5,250. Architect, private plans. Owner, Henry H. Albertson, Burlington, N. J. General alterations, carpentry, mill work. Contract awarded to John R. Erbe, 2551 North Sixth street, Philadelphia.

**Office and Store House (alts. and add.)**, 138 South Bonsall street, \$5,000. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, A. R. Rosse, 5036 Osage avenue, Philadelphia. Brick, 3 stories, 16x56 feet, add., general alterations. Contract awarded to W. A. Evitts, 5022 Chancellor street, Philadelphia.

**Apartment (alts.)**, 4935 Walnut street, Philadelphia, \$4,500. Owners, Frank Quinn, on premises. General alterations. Contract awarded to Charles R. Davis & Son, 1500 Ellsworth street.

**Residences (2)**, 1041-43 Hellerman street, Philadelphia, \$3,000 each. Architect, private plans. Owner, Martha Rose, 2715 Bridge street, Philadelphia. Frame, 2 stories, 18x40 feet, electric light, pine floors. Contract awarded to John J. Glazier, 1967 Bridge street.

**Office and Tool House**, 2515 West Fifth street, Philadelphia, \$6,000. Architect, private plans. Owners, Ward Brothers, 2515 West Fifth street, Philadelphia. Brick, 2 stories, 30x21 feet, 1 story, 30x36 feet, slag roof. Contract awarded to Hagerty & Sullivan, 37 South Seventeenth street, Philadelphia.



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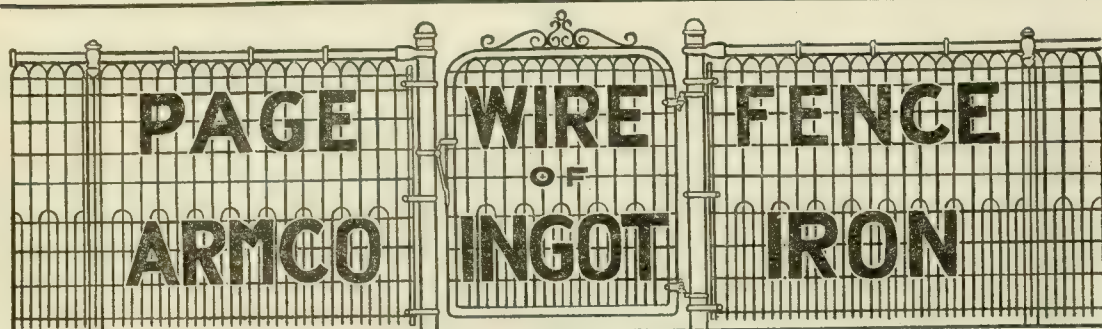
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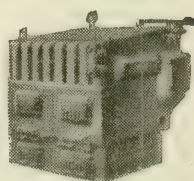
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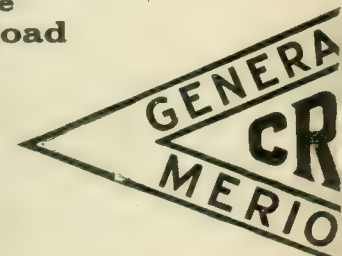
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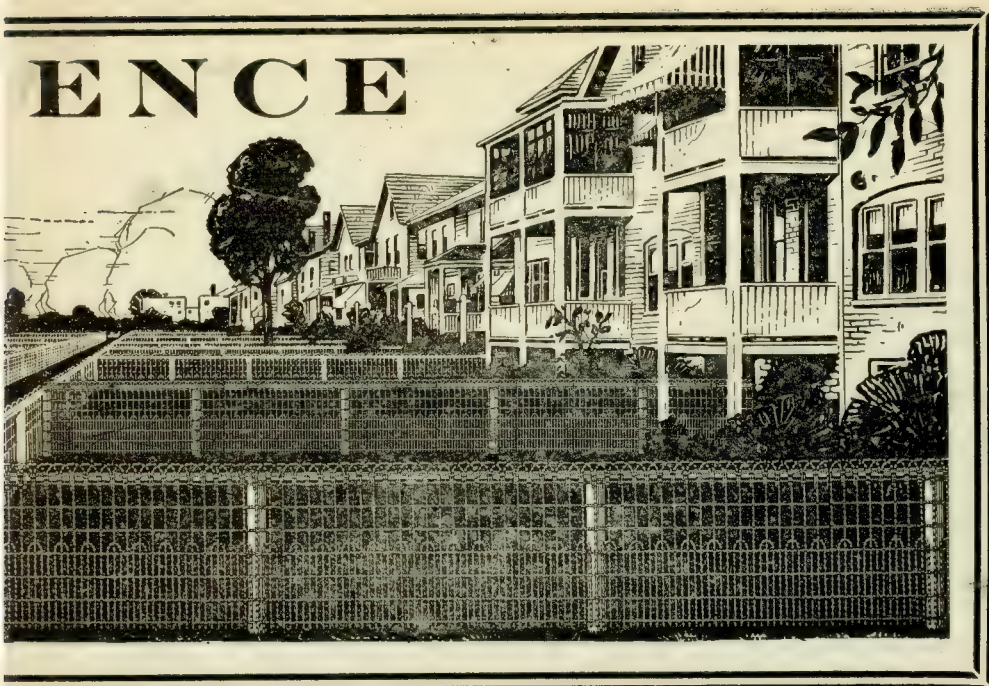
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**Residence (add.)**, 1947 North Twelfth street, Philadelphia, \$2,800. Architect, private plans. Owner, H. Tashjian, on premises. Brick, 1 story, 18x20 feet. Contract awarded to S. Kervok, 5313 Spruce street, Philadelphia.

**Store and Storage Building (alts.)**, 206-08 North Tenth street, \$3,500. Architect, private plans. Owner, M. Horwitz, Sixth and Girard avenue, Philadelphia. General alterations. Contract awarded to Shickman Brothers, 1924 North Marshall street.

**Store and Residence (alts. and add.)**, 935 Catharine street, \$3,000. Architect, private plans. Owner, A. Birtino, on premises. Brick, 3 stories add., 7x10 feet, 4x4 feet and 18x8 feet, general alterations. Contract awarded to M. De Mosi, 928 Snyder avenue, Philadelphia.

**Junk Shop**, West side Rising Sun avenue, North of Pike street, \$3,800. Architect, private plans. Owner, W. Krevitz, 3929 North Fifth street, Philadelphia. Brick, 1 story, 35x29 feet, slag roof. Contract awarded to Fred Noccontini, Butler and Rising Sun avenue.

**Garage**, Northwest Corner Janney and Williams street, Philadelphia, \$3,600. Architect, private plans. Owner, J. Leavey, 1107 Shackamaxon street, Philadelphia. Brick, 1 story, 90x13 feet, slag roof, cement floors. Contract awarded to George Engle, 5734 Crittenden street, Philadelphia.

**Residence and Store (alts.)**, 327 North Ninth street, Philadelphia, \$2,300. Architect, private plans. Owner, J. Simon, 529 South Sixtieth street, Philadelphia. General alterations. Contract awarded to B. Simpson, 711 North Tenth street, Philadelphia.

**Store and Storage Building (add.)**, Southeast Corner Fourth and Mifflin streets, \$3,000. Architect, private plans. Owner, Mr. Bennett, Southeast Corner Second and Ritner streets, Philadelphia. Brick, 2 stories, 15x12-foot add. Contract awarded to C. Shore, 605 Luray street, Philadelphia.

**Building (alts.)**, 314 South Broad street, Philadelphia, \$3,000. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Nathan Kushin, Fifth and Pine streets, Philadelphia. General interior alterations. Contract awarded to H. Slavitt, 5136 Haverford avenue, Philadelphia.

**Store and Residence (alts.)**, 1227 North Twelfth street, Philadelphia, \$2,500. Architect, private plans. Owner, Henry Glaser, Jr., 1016 North Fifth street, Philadelphia. General alterations, hot water heating. Contract awarded to Frank A. Stoll, 170 Master street, Philadelphia.

**Apartment (alts.)**, 722 North Twentieth street, Philadelphia, \$2,000. Architect, private plans. Owner, Joseph Baskin, 742 North Twentieth street, Philadelphia. General alterations, plumbing. Contract awarded to J. Jones Davies, 652 North Seventeenth street, Philadelphia.

**Residence and Store (alts.)**, 1837 South Tenth street, Philadelphia, \$2,000. Architect, private plans. Owner, Antonio Repice, on premises. General alterations. Contract awarded to John Armillio, 1023 Wolf street, Philadelphia.

**Manufacturing Building (add.)**, Bovine, York to Cumberland, Philadelphia, Pa. Architect, private plans. Owners, American Fabricated Steel Co., 2442 North Bodine street. Steel, concrete footings, 1 story,

100x115 feet, slag roof, rolled steel sash. Owners taking sub-bids. Contract awarded on footings to Smith-Hardican Co., 1809 Callowhill street, Philadelphia.

**Store (alts.)**, 815 Vine street, Philadelphia. Architect, private plans. Owner, E. F. Kettelberger, Drexel Hill, Pa. Metal lath, marble work, electric lighting, painting and glazing, plate glass, plumbing, flush bulks. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

**Garage (alts. and add.)**, 1704 Kater street, Philadelphia, \$2,900. Architect, private plans. Owner, Thomas James, 1704 Bainbridge street, Philadelphia. Brick, 1 story add., 14x20 feet, general alterations. Contract awarded to W. C. Hinson, 1329 South Twenty-third street, Philadelphia.

**Alterations and Additions**, 1526 Race street, Philadelphia. Architect, A. B. Lacey, 1012 Walnut street, Philadelphia. Owner, Charles Weissinger, care of architect. Brick, cement work, carpentry and mill work, North Carolina pine floors, iron work, painting and plastering, electric light, glazing, bond (plumbing, heating reserved). Contract awarded to Hood & Gross, 1613 Chestnut street, Philadelphia.

### Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Nov. 12, 1923.—Sealed Proposals will be opened in this office at 3 P. M., Dec. 10, 1923, for remodeling at the United States Post Office at Allentown, Pa. Drawings and specifications may be obtained from the Custodian at Allentown, Pa., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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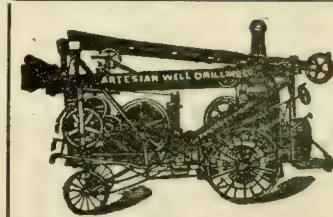
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# PENNSYLVANIA

## Construction News

**Store (alts. and add.),** Birdsboro, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owner, Chester Bland, 1548 Mineral Spring Road, Reading, Pa. Brick, 1 story, 16x92 feet, Johns-Manville roof, pine floors, heating extension, electric light, general alterations. Plans in progress.

**Church (alts.) and Sunday School,** Mertz-town, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Paul's Lutheran Reformed Church, care of architect. Brick, 1 story, 30x35 feet, brick tower, slate roof, pine floors, steam heat, electric light, new windows, plastering. Plans in progress.

**Rectory,** Birdsboro, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Dr. Burns, Birdsboro, Pa. Brick, 2½ stories, 30x40 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Plans in progress.

**Bridge, No. 174,** Old Fork Road, Media, Pa. Engineer, R. J. Aydelotte, County Engineer, Media, Pa. Owners, Delaware County Commissioners, Media, Pa. Plate girder, reinforced concrete, 65 feet. Plans completed. Ready for bids in 3 weeks.

**Residences and Garage, No. 3 and No. 4,** Rosemont, Pa. Architects, De Armond, Ashmead & Bickley, Franklin Trust Building, Philadelphia. Owner, name withheld. Hollow tile, stucco, 2½ stories, 31x46 feet, 16x34 feet, wing 16x18 feet, vapor vacuum heat, electric light, tile work, shingle roof hardwood floors. Architects have sublet.

**Residences (66),** Old Lancaster avenue and City Line, Bala, Pa. Architect, private plans. Owner, Claude E. Taylor, City Line and Merion, Overbrook, Pa. Stone and brick, 2 stories, 20x34 feet, slag and slate roof, hardwood floors, cement work, garages in basement, metal lath, tile work, electric light, hot water heat. Owner taking sub-bids.

**Hospital (add.),** Walnut street, Reading, Pa. Architect, F. H. Muhlenberg, Ganster Building, Reading, Pa. Owners, St. Joseph's Hospital, Reading, Pa. Brick, terra cotta and concrete, 4 stories, 45x250 feet, asphalt shingle roof, composition floors, steam heat (electric light), metal lath, tile, marble and

terrazzo work, roof ventilators. Architect ready for bids.

**Store and Apartment,** Pottsville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Herman Vogt, 702 West Market street, Pottsville, Pa. Brick, structural steel, reinforced concrete, stone trim, 2 stories and basement, 20x95 feet, built-up and tile roof, composition and hardwood floors, Webster heat, electric light, tile work, sheet metal work, metal bulks, waterproofing. Architects and owner ready for bids.

**Parish Buildings,** Bywood, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Alice's Roman Catholic Church, care of Rev. W. L. Hayward, on premises. Stone, brick, steel. Architect will take bids in two weeks.

**High School,** Tremont, Pa. Architect, W. D. Hill, Pottsville, Pa. Owners, Tremont School District, E. F. Fidler, secretary, Tremont Pa. Brick and hollow tile, 167x87 feet, built-up roof, maple floors, hollow tile, roof ventilators, waterproofing, wire work (plumbing, heating, electric work reserved), metal lath, steel sash. Owners taking bids due November 27th.

**Residence, Terminal and Yerkle avenue,** Springfield Township, Pa. Architects, R. R. Neely & E. William Martin, 2301 Spruce street, Philadelphia. Owner's name withheld. Brick, 2 stories, 27x30 feet, slate roof, hardwood floors, hot air heat, electric light, tile work (plumbing, heating and gas fitting separate bids). Architects taking bids due November 22nd.

**Residences (2),** Bala, Pa. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, Mrs. G. W. Kendrick, Bala, Pa. Stone, 2½ stories, 24x40 feet, hot water heat, electric light, tile work, slate roof, hardwood and pine floors. Architect taking bids due November 22nd.

**Grade School Building,** Rosemont, Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, City of Bethlehem, Pa. Brick, reinforced concrete, cut stone, 2 stories and basement, 117x63 feet, steam heat, electric light, metal lath, composition roof, maple floors, tin clad doors, bond, iron work, roof ventilators. Owners taking bids due November 28th.

**Edgeboro Grade School,** Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, City of Beth-

lehem, Pa. Brick, reinforced concrete, cut stone, 2 stories and basement, 162x63 feet, steam heat, electric light, metal lath, tile work, tin clad door, bond, iron work, roof ventilators, cement and maple floors, composition and slate roof. Owner taking bids due November 28th.

**East Fowell Street School,** Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, City of Bethlehem, Pa. Brick, cut stone, reinforced concrete, 2 stories and basement, 154x61 feet, steam heat, electric light, metal lath, tin-clad, hollow metal doors, bond, composition and slate roof, cement and maple floors, roof ventilators. Owners taking bids due November 28th.

**Post Office (alts. and add.),** Allentown, Pa. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, Treasury Department, Washington, D. C. General remodeling, bond. Owners taking bids due December 10th, 3 P. M.

**High School,** Palmerton, Pa. Architect, W. H. Lee, 1505 Race street. Owners, Palmer-ton School, care of R. B. Rosenberry, Palmer-ton. Brick, steel, cast stone, 3 stories and basement, 186x165 feet, slag roof, steam heat, electric light, pine floors. Low bidders: Ochs Const. Co., Allentown, Pa., \$286,051; J. Y. Loux, Fifteenth and Hunting Park avenue, Philadelphia, \$299,500. Electric, W. H. Taylor, care of owner, \$14,460. Heating, E. Kiehr, Williamsport, Pa., \$49,997. Plumbing, J. M. Mathews, Fifteenth and Race, Philadelphia, \$12,390.

**Residence and Garage,** Paoli, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Mrs. Rachel De Trampe, care of architect. Concrete block, stucco, 2½ stories, 28x38 feet, 1 story, 15x18 feet, asbestos shingle roof, hardwood and cement floors, hot water heat, electric light, plumbing. Plans in progress. Architect ready for bids in ten days.

**Residences (132), Stores (12),** Marcus Hook, Pa., \$850,000. Architect, Albert E. Taylor, 532 South Fifty-first street, Philadelphia. Owners, Taylor & Sherman, 532 South Fifty-first street, Philadelphia. Brick, cinder concrete blocks, stucco, 2 stories, residence, 18x30 feet, stores (6), 18x55 feet, (6) 16x55 feet, pipeless heat, electric light, slag roof, pine floors, metal lath, stucco wall tile, asbestos rolled shingles, cement and stone work, metal bulks, hot water heating in stores, ornamental iron work, sewer and road work. Architect taking general and sub-bids due as soon as possible.

**Residence and Garage,** West side Montgomery Ave., North of Spring Mill Road, Villa Nova, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, J. H. Tay-

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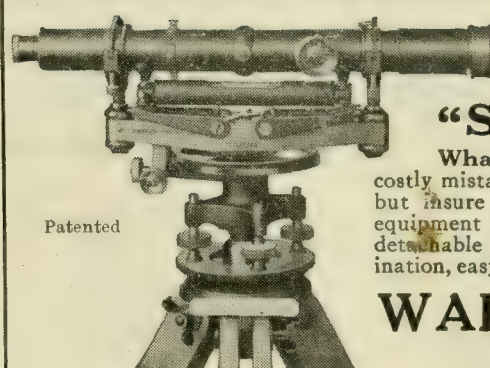
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lor, care of architect. Stone, 2½ stories. Architect taking bids due December 1st.

**Ice Cream Factory (add.),** Shamokin, Pa. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owner, C. A. Tharp & Son, Shamokin, Pa. Reinforced concrete, structural steel, face brick, 2 stories and basement, 68x36 feet, built-up roof, electric light, steel rolling doors, wood sliding doors, castone, rolled steel sash. Owner taking bids.

**Cottage,** East York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, A. P. Minich, York, Pa. Stucco and cinder block 1 story, 45x43 feet, asphalt shingle roof, hardwood floors (heating reserved), electric lighting. Architects taking bids due as soon as possible.

**Residence (alts.),** Gettysburg, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, Mr. J. L. Keith, Gettysburg, Pa. Brick, 2 stories, 30x40 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, general alterations, partitions, sun parlor. Owner taking bids.

**Filling Station,** Selinsgrove, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Jewell Oil Co., Shamokin, Pa. Concrete, face brick, steel, 1 story, 25x30 feet, tile and prepared roof, pine floors, hot water heat, electric lighting, plumbing. Owners taking bids.

**Pennsylvania****Contracts Awarded**

**Parochial School,** Elkins Park, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. James' Roman Catholic Church, Rev. J. J. Gibbons, Elkins Park, Pa. Stone, 3 stories, 98x56 feet, slag roof, pine floors, metal lath, tile work, ornamental iron work (plumbing, heating, electric reserved). Contract awarded Frank Schuler, Norristown, Pa.

**Office Building,** Third street, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Henry Closter, Harrisburg, Pa. General interior and exterior alterations, marble work, brick work, rolled steel skylights, roof ventilators. Contract awarded to C. Lady, Harrisburg, Pa.

**Farm House,** near Wernersville, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owner, R. G. Bushong, 526 Court street, Reading, Pa. Frame, 2 stories, 20x25 feet, shingle roof, pine floors, hot air heat, electric light. Contract awarded to Reider & McLaughlin, Reading, Pa.

**Residence,** Lancaster, Pa. Architect, R. A. Stair, Guardian Trust Building, York, Pa. Owner, R. W. Troup, 909 East King street, Lancaster, Pa. Cinder block, stucco, 2½ stories, 45x30 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to H. L. Wiant 544 Mill street, Lancaster, Pa.

**New Jersey****Construction News**

**Bell Telephone Exchange,** Haddon Heights, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway. Philadelphia. Brick, stone, steel, concrete, 2 stories, electric light, cement floors. Plans in progress.

**School Building,** Westmont, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Westmont, N. J. Brick, stone, steel, 8 class rooms and auditorium. Plans in progress. Too early for details.

**Apartment Building (alts. from residence),** Merchantville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, name withheld. Frame, 2½ stories, 36x30 feet, shingle roof, hardwood floors, vapor heat, electric light. Plans completed. Architect will take bids.

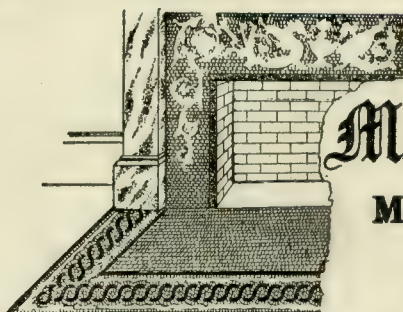
**Court House (alts.),** South Broad and Market streets, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Theatre Building, Trenton. Owners, Board of Freeholders of Mercer County, E. E. Margerum, Trenton, N. J. Stone, 1 story, hardwood floors, elevator, general alterations, tile and marble work. Plans in progress.

**Residences,** Pleasantville, N. J. Architect, private plans. Owners, Hampton Brothers Co., 4405 Atlantic avenue, Atlantic City. Brick, stone, stucco, various sizes, details undecided. Work contemplated.

**Comfort Station,** Massachusetts avenue and Boardwalk, Atlantic City. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, L. Steinbrecker, City Hall, Atlantic City, N. J. Architect selected.

**Comfort Station,** Grammercy and Boardwalk, Atlantic City, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, L. Steinbrecker, City Hall, Atlantic City, N. J. Architect selected.

**Apartment (alts. and add.),** South Seaside



# Italian

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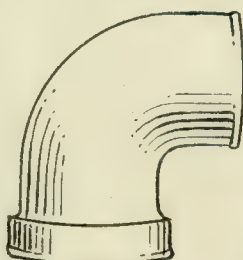
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avenue, Atlantic City. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, J. P. Conway, 208 South New Hampshire avenue, Atlantic City. General alterations, partitions. Preliminary plans in progress.

**Comfort Station**, Texas avenue and Boardwalk, Atlantic City, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, L. Steinbrecker, City Hall, Atlantic City, N. J. Steel, brick, fireproof, 1 story and basement, 34x60 feet, concrete roof, tile floors, hot water heat, electric light, tile and marble work, rolled steel sash and skylights, roof ventilators. Preliminary plans in progress.

**Apartment (alts. and add.)**, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, J. P. Conway, 208 South New Hampshire avenue, Atlantic City. Brick, new partitions, hardwood floors, plumbing, tile work, partitions. Owner will take bids.

**Apartment**, Chelsea, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, care of architect. Brick, steel, 5 stories, 109x41 feet, 6 inches, slag roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, iron stairs. Architect about ready for bids.

**Residence**, Somerville, N. J. Architects, W. W. Slack & Son, St. Regis Theatre Building, Trenton, N. J. Owner, J. Reger, Somerville, N. J. Tile, stucco, 2½ stories, 80x30 feet, slate roof, hardwood floors, hollow tile, hot water heat, electric light, tile work. Owner taking bids.

**Store and Residence**, Absecon, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, Martin J. Lavell, Absecon, N. J. Frame, 1 story, 26x60 feet, slag roof, pine floors, hot water heat, electric light. Owner taking bids.

**Apartment**, Chelsea, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, care of architect. Brick, steel, 5 stories, 103x41 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, iron stairs. Plans in progress. Architect about ready for bids.

**Residences (7) (two-family)**, location withheld. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Kenneth Thompson, 14 South Ohio avenue, Atlantic City, N. J. Brick, 2 stories, 38x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Apartment**, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, Dr. William Roop, Alexandria Apartments, Atlantic City. Brick, 3 stories, 37x90 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner taking sub-bids.

**Garage, Shop and Store**, Hamilton avenue, Trenton, N. J. Architect, private plans. Owner, George Rieker, 519 South Clinton street, Trenton, N. J. Brick, steel, 3 stories, 21x79 feet, slag roof, hardwood floors, electric light, mill work, plate glass, iron work. Owner taking bids.

**Residence (alts. and add.)**, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, R. J. Carey, 179

Cooper street, Trenton, N. J. Brick, stucco, 2½ stories, 17x60 feet, slag roof, pine floors, hot water heat, electric light, metal lath, marble work, general interior alterations. Architect taking bids due December 5th.

**Store and Apartment (alts.)**, Penn and North Clinton streets, Trenton, N. J. Architect, H. G. Aitken, American Mechanics' Bank Building, Trenton. Owner, J. Epstein, care of architect. Brick, 3 stories, pine floors (plumbing, heating and electric reserved), metal lath, tile work, copper and partitions work, hollow metal sash, metal ceilings, ornamental iron work. Architect taking bids.

## New Jersey Contracts Awarded

**Grade School**, Paulsboro, N. J. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, Board of Education, Borough of Paulsboro, N. J. Reinforced concrete, brick, cut stone, 2 stories and basement, 136x65 feet, steam heat, electric light, metal lath, bond, ornamental iron work, damp-proofing, hollow tile, cement and maple floors, slate roof. Contract awarded G. W. Shaner, Palmyra, N. J., \$116,720. Electric, Enterprise Electric Co., 230 South Tenth street, Philadelphia, \$3,300. Plumbing, R. J. Hoben, 258 South Van Pelt street, Philadelphia, \$6,470.

**Car Cleaners' and Car Inspectors' Building**, Camden Terminal, Camden, N. J. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railroad Co., Reading Terminal, Pa. Reinforced concrete and brick, 1 story, 32x55 feet, asbestos roof, asphalt mastic floors, hollow tile, electric light, rolled steel sash, bond. Contract awarded Irwin & Leighton, 120 North Twelfth street, Philadelphia.

**Hotel (alts. and add.)**, South Kentucky avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, Miss Margaret Healy, on premises. Brick, frame, 2 stories, 12x40 feet, slag roof, hardwood floors, electric light, general interior alterations. Contract awarded to P. O'Nalley, 3 South Texas avenue, Atlantic City.

**Automobile Shop**, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City, Department of Improvement, Atlantic City, N. J. Brick, 1 story, 22x125 feet, slag roof, concrete floors, hot water heat, electric light, rolled steel skylights. Contract awarded to N. W. Young, 15 South Ohio avenue, Atlantic City.

## Miscellaneous Construction News

**School**, Newark, Delaware. Architects, Guilbert & Betelle, 665 Broad street, Newark, N. J. Owners, Board of Education of Newark, Del., Dr. W. H. Steel, president, Newark, Del., and Delaware School Auxiliary

Association, Dupont Building, Wilmington, Del. Brick, concrete, semi-fireproof, 2 and 3 stories, 170x118 feet (plumbing, heating, electric work separate bids). Owners taking bids due November 28th at 2 P. M.

**United States Post Office**, Mystic, Conn. Architect, J. A. Wetmore, supervising architect, Treasury Building, Washington, D. C. Brick, hollow tile, 1 story, 62x64 feet, slag, composition roof, cement and maple floors, hollow tile, roof ventilators, metal weather strips, waterproofing, iron work, floor hardener, bond, fire vault, sheet metal skylight, tile and marble work, metal lath, ash hoist. Owners taking bids due November 26th.

## Proposals

### GOVERNOR'S MANSION AT KANAWHA, DUFFY AND VIRGINIA STREETS CHARLESTON, WEST VIRGINIA NOTICE TO CONTRACTORS

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 2.00 P. M., Friday, December 28, 1923, for the furnishing of all labor and materials of every kind necessary in the completion of the building described below, according to the plans and specifications of Walter F. Martens, Architect, Charleston, W. Va.

The building is to be 73 ft. 6 in. x 81 ft. 2 in., with a service wing 58 ft. x 17 ft., and with additional areas for porches; semi-fireproof construction; two stories high, with half basement and attic; walls brick, hollow tile; exterior walls faced with Colonial Red Brick; Vermont Marble and Indiana Limestone trim; slate roofing; built-up roofing on decks; structural steel and steel lumber; tile floors in halls, baths, toilets and porches, oak floors elsewhere; wood stairs on steel frames; trim Birch, Oak and Poplar; metal lath; Gypsum and cement plaster; wood sash, frames and doors; electric wiring, conduit system; inter-communicating telephone system; plumbing; vapor steam heating system; incinerator; vacuum cleaner.

Plans, specifications and blank form for bids will be mailed by the State Board of Control, when request is accompanied with check for \$25.00, which amount will be REFUNDED ONLY ON RECEIPT OF BONA-FIDE BID on or before the time named above, and the return of the plans.

Bids to be accompanied with certified check payable to the State Board of Control for an amount equal to 1% of the bid, as guarantee of good faith.

STATE BOARD OF CONTROL  
By JAMES S. LAKIN, President  
Charleston, Kanawha County, W. Va.

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WEST VIRGINIA UNIVERSITY  
MORGANTOWN, WEST VIRGINIA  
NOTICE TO CONTRACTORS**

Sealed proposals will be received by the State Board of Control, at its office in Charleston, W. Va., until 3.00 P. M. Friday, December 28th, 1923, for doing all work and furnishing all material necessary to complete the building described below, according to the plans and specifications, and the addenda thereto, prepared therefor by Paul A. Davis, 3rd, & Dunlap, Architects, Philadelphia, Pa.

The building is to be 305 ft. 7 in. x 79 ft, four stories, with basement and attic, with extension of one story and basement. Fire-proof construction except main roof, which is steel, wood and slate. Exterior of face brick with Indiana Limestone trimmings. Interior brick finished walls. Concrete ceilings. Interior wood finish of Oak. Interior partitions brick and tile. Stairs iron. Entrance vestibule marble and plaster. Floors of terrazzo, marble, tile, composition, cement and asphalt.

Plans and specifications, and blank form for bids will be mailed by the State Board of Control when request for plans is accompanied with check for \$25.00, which amount will be REFUNDED ONLY UPON RECEIPT OF BONA-FIDE BID AND CERTIFIED CHECK, on or before time named above, and return of plans and specifications.

**STATE BOARD OF CONTROL**

By JAMES S. LAKIN, President  
Charleston, Kanawha County, W. Va.

The Penn Building Company, contractors and builders, formerly of 1509 Venango St., Philadelphia, have opened new offices at 6517 North Lambert St., Philadelphia.

Frank Schmitt, formerly with Thomas J. Regan, Philadelphia, has opened offices at 1132 Vine St., Philadelphia, under the name of Schmitt & Slater Company, brickwork and masonry.

(Continued from Page 740)

management and single responsibility for successful completion of a structure. the element of responsibility is manifold and under most existing contracts includes protection to the owner from loss due to causes such as the following:

- Increased cost of construction.
- Delay in completion.
- Injury to workmen and the public.
- Patent infringement.
- Injury to adjacent property.
- Damage from the elements and acts of God.
- Imperfect material and workmanship.
- Liens and the abuse of lien laws.
- Default on subordinate contracts.
- Unknown underground conditions.
- Demands for extortionate wages.
- Fire and theft.
- Labor, material and transportation shortage.

When separate contracts are used, much of this responsibility is placed directly upon the owner. Contrary to popular conceptions, the most important function of the general contractor is not

to erect steel, brick or concrete, but to exercise skill in purchasing to co-ordinate all crafts as to structural feature and to synchronize their operations as to time of installation. Due to the great number of different trades and products entering into a project, all of which must be co-ordinated with the main skeleton and principal elements, this portion of the work is usually performed by the contractors' own forces—not that actual performances of such work is inseparable from the management function, but because it is the most vital portion of the structure, into which other elements fit, and should therefore be subject as far as possible to control of the central management.

General contracting in construction today is a combination of management service, financing, and the assumption of certain risks which are not common to manufacturing and other industries. In fact the basic industries serving construction refuse to accept many of these risk; and since the public or private owner is unwilling to assume them, they are consolidated and carried by the general contractor as a part of his service. Incidentally it is that part of his service which has made contracting, according to the report of the income tax unit, the most hazardous of all production industries.

*Gives a Guarantee*

More briefly stated, the construction company guarantees to deliver a specified project at a given cost and particularly, in Government contracts at a given time. Under the policy of separate contracts it is proposed to take certain portions of the work away from the construction company's control, but apparently to hold that company responsible for the time of completion and satisfactory co-ordination of the different crafts.

A few public officials and practicing professional men have tried the plan of making separate contracts for all portions of a building, thus eliminating the services of a general contractor, but these experiments have demonstrated conclusively that though the contractor may be eliminated as a personality, his business function must be assumed by either the owner or his representatives, and, assumed moreover, without the protection against those contingencies assumed by a general construction company. In other words, general contracting is not the mere broking of contracts, but is a highly specialized business, depending for its success upon the personal skill and direction of capable executives.

In a comparatively few exceptional cases, engineers or architects have successfully performed this management function; but they have done so not by reason of their technical skill, but in spite

of it. They were good construction executives, with an understanding of business and economics—combination not commonly found in the professions. The award of separate contracts constitutes the assumption of construction management by the professional representatives of the owner and is subject to the same objections that are encountered when the construction executive attempts the function of design. Each of these functions requires its particular type of mind, trained to its respective functions, and when either transgresses the other field the owner usually pays the unnecessary cost.

Sub-contractors, undoubtedly understand this question of management, and the issue of separate contracts involves no contention that the management function can be eliminated but merely raises the contention that this management shall be split apart and a portion of it placed upon the owner or his representative—a procedure which under usual conditions the vast majority of conscientious professional men know to be unsound.

Since delay of completion and extra cost are serious factors in most construction projects, and since owners naturally do not care to assume direction of matters affecting these things, they have nearly always found it to their best interests to deal with a single responsible company that will guarantee to deliver the structure at a given time, for a given price without obliging them to assume the task of management. Such a service can obviously be rendered only through the award of a general contract which vests in some experienced company the authority necessary to carry out the commission. That this policy of management is sound in practice as well as theory is demonstrated by its continuance in an economic scheme where the general contractor as an individual has successfully dealt for his client with a multitude of strongly organized industries.

The inconsistency of the separate contract plan though obvious with respect to the time element, is not so apparent with respect to cost. Yet its effect on cost is the same. Any delay of a project under ordinary circumstances adds to the cost and with four or five independent contractors carrying on their respective operations delays in those contracts introduce delays and expense beyond the control of the principal contractor. In view of the principle of extension of time for delays beyond the control of the general contractor, recently approved by the Interdepartmental Board, any award of separate contracts upon which the major contract depends appears incompatible with the spirit of the new standard contract.

In practical effect, separate contracts mean the shifting of control without the



shifting of responsibility, a process that corporate industries constantly guard against. In fact, the necessity of matching responsibility with control is so generally accepted in modern industry that the principle has become axiomatic. Under the separate award a portion of this control is placed in the hands of a professional man or, on government work, in the hands of a contracting officer, neither of whom assumes financial responsibility to the owner. Since it is upon this responsibility that competitive bidding is established, public officials and the professions should proceed with caution, unless they desire to pave the way for a breakdown of the competitive system.

Whatever policy is most advisable for handling mechanical installations is a matter which can undoubtedly be decided by the Interdepartmental Board on a basis of public interest; and the mere pecuniary interest of any trade group can rightfully enter the question only where it is compatible with the other factors of economy, quality of work, efficient service, and public safety. How the proposed policy affects these factors is indicated in the following sections:

#### *Economy*

Reports from many representative construction companies show that the usual percentage commonly, but improperly, designated as profit that is added to mechanical contracts by the general contractor is about 5 per cent. This amount, though it may, in some cases, contain an element of profit, is in reality a service charge to compensate for such items as superintendent, night watchman, hoisting, storage space, protection from weather, temporary heating and other general overhead expense entailed by the sub-contractor which cannot be accurately proportioned to each unit of construction. When it is recalled that the architect in private work usually charges 3 or 4 per cent. for handling sub-contracts direct and yet provides none of the above items except the superintendent, it is obvious that the contractor's 5 per cent. can contain no great amount of profit.

As the total proportion of the mechanical trade is rarely over 20 per cent. of the project, it therefore occurs that the architect's fee for management amounts to some three-fourths of 1 per cent. and the contractor's fee to about 1 per cent. of the total contract sum. On government work this fee of the architect would not actually be paid in money, but if the supervising architect or any other official performs this management function his staff must be greater than that required for design and the added expense occurs. This means therefore that by using separate contracts a private owner or the government appears to save one-fourth of 1 per cent. on the structure by assuming the responsibility that is regu-

larly assumed by the general contractor.

In reality the saving is less than this amount, as the architect and the contracting officer have no facilities for rendering the necessary services to sub-contractors and must in their contracts place performance of this service upon the general contractor. The expenses for such services must obviously be included in the general contract price, if they are not included in their logical place as a percentage on the sub-contract.

#### *At Least Four Factors*

Experience has shown that this apparent saving on the contractors' charge, due to at least four factors of indirect expense which overbalance the saving is seldom realized. These are as follows:

*First, Suits and Damages.* When the responsibility for successful performance is divided among a number of independent contractors friction almost invariably arises over their respective obligations and the way is open to claims for extras and damage. That the danger discord and damages under the separate contracts plan is anticipated and may be a very grave reality, is evidenced by the standard Documents of the American Institute of Architects. Provision is therein made that if any contractor damages another he shall settle with that contractor if the contractor will agree to settle, and if any contractor sues the owner by reason of such damage, the contractor alleged to be responsible for the damage shall defend the suit at the owner's expense, reimbursing the owner if the suit is lost.

The mere fact that the system places an owner liable to such suits is a contingency which careful owners may well consider. In the case of government work the liability may not be so great, but cognizance should be taken of the fact that any policy approved by the Government will be used as a precedent for urging that policy upon unprotected individuals.

*Second Competitive Prices.* It is common knowledge that general contractors usually receive lower bids from the mechanical trades than do individual owners dealing directly and there is little reason to believe that the Government will fare better than the individual. Where the general contractor is used moreover, the Government receives a double competition: First, the competition of sub-contractors dealing with the general contractors and, second competition between general contractors. Frequently it occurs that the general contractor, considering a proposal from the mechanical trades excessive, substitutes his own figures and brings the cost of the work within them. Though he does not pretend to know the technique of mechanical design, any more than the technique of cement manufacture, he has a good idea of quality, price and co-ordination of such work with the

whole and uses this knowledge as a part of his service to the owner.

#### *The Element of Delay*

*Third, Delay Contingency.* As Government contracts carry liquidated damages for delay in the date of completion, it is logical to assume that the Government is subject to loss when the stipulated time is over-run. Under the separate contract plan the probabilities of over-running the time are exceedingly great, and if the general contractor is held responsible for that time he must unquestionably include in his bid an allowance to cover such a contingency. If the time is not over-run the Government receives no liquidated damages, but it has paid insurance against it.

*Fourth, Overhead Costs.* One of the basic reasons for the consolidation of independent establishments into large corporations and chain stores is the reduction of indirect and overhead expense entailed by the isolated units and the same principle applies to construction. Four or five independent contractors, establishing their operations independently, possibly erecting separate hoists, or otherwise duplicating certain common functions unquestionably carry a greater overhead expense than when all operations are co-ordinated under a single head. This duplication of overhead invariably exists under such arrangement and owners are obliged to foot the bill.

In the brief presented to the Interdepartmental Board by representatives of the mechanical trades an attempt has been made by generalizing on two cases to deny the economy of the central management system and to show a comparison of the bids that splitting control and responsibility is conducive to economy. The weakness of this contention is suggested by this attempt to generalize on a single instance out of many thousands. Figures of a similar sort showing an opposite conclusion can readily be submitted or doubtless secured from the Government's own files, but such tabulations, unless secured for a great number of projects, are worthless for the purpose at hand. The most significant point of this tabulation of bids is the fact that only three of those companies bidding on the entire work submitted bids for the general construction work alone. The statement made by a majority of construction companies consulted relative to the issue was that they do not care to bid upon work that is performed under separate contracts. They also stated that they should prefer to see this system adopted were it not for the fact that under it efficient co-ordination and conduct of the work is practically impossible.

#### *Quality of Construction*

The quality of construction obtained under one or the other systems of con-



tracting need not be influenced materially by the system itself, as the supervising agency has authority to reject portions of the structure that are improperly constructed or contain faulty materials. Under the single contract plan, however, the general contractor naturally exercises precaution to insure that the work is properly installed as he in the final analysis stands responsible for its quality and guarantees that all portions of the structure will be constructed as specified.

That the architect in private work not only values this inspection and supervision of the general contractor when separate contracts are used, but also forces him to exercise it, is indicated by the standard contract of the American Institute of Architects, which provides for either plan.

Article 41 reads, "If any part of the contractor's work depends for proper execution or results upon the work of any other contractor, the contractor shall inspect and promptly report to the architect any defects in such work that render it unsuitable for such proper execution and results. His failure so to inspect and report shall constitute an acceptance of the other contractor's work as fit and proper for the reception of his work except as to defects which may develop in other contractor's work after the execution of his work."

This paragraph means that the general contractor, even though he has had no supervision of installations under the separate contract, must nevertheless stand sponsor for its quality. This, the mechanical trades contend, he is not competent to do, and upon this contention base their principal argument for the separate contract. It appears therefore that regardless of the number of different contracts involved, the general contractor is asked to stand sponsor for the entire work. To do so without having control of the work is nothing short of a gamble; and when architects and public officials force the contractor to gamble, they can logically expect the latter to cover himself with a contingent charge.

The contract clause quoted above is obviously the result of difficulties that have arisen under the separate contracts system and if there is any preference between the two systems with respect to quality and workmanship, it undoubtedly rests with the single contract and centralized responsibility.

#### *Satisfactory Service*

Satisfactory construction service requires not only that a structure be properly built, but also that it be delivered when due, and a delay in one separate contract may delay the progress of the entire project. The heating plant is essential to the drying of walls and the

execution of certain other work. Plaster, marble, tile, and painting are also dependent upon the heating plant, and if it is not installed at the proper time the owner does not get his project when due.

Friction between superintendents of the different contractors is almost inevitable, since the work of each appears to depend upon the performance of another. Issues arise over the use of hoists, the laying out of conduits, storage of materials, the installation of safety devices and numerous other matters inevitable when a dozen or more crafts are working together. Under such conditions it is hardly conceivable that efficient construction service can be rendered without the presence of a central management, financially responsible for its acts.

With a number of independent companies operating on a building, responsibility is easily shifted until it is practically impossible to determine who is responsible for the commission of various acts. Obviously the type of construction service desired by client owners cannot be supplied efficiently unless some responsible agency has control of every element involved.

Claim has been made by individual engineers and architects from time to time that by supplying management service they eliminate the general contractor and save their client his profit. Such contentions are untenable in view of the actual personal service that must be rendered in the erection of a structure. They do not eliminate the contractor, but merely become a contractor, operating on a cost-plus basis, minus the element of financial responsibility. It is from a portion of this "plus" that the competitive bidder draws his profit.

#### *Step Toward Shifting*

The breaking down of a general contract into separate divisions is a step toward shifting management from a financially interested competitive bidder to the professional man whose ethics preclude financial competition. If carried far enough it must certainly lead to the elimination of commercial competition, in so far as guaranteed cost of construction projects is concerned.

An important service of the general contractor consists in assuming the responsibility for liens. It is an inconvenience to the owner to have to investigate the wind-up of four or five contracts to protect himself from liens when this protection can be given by a single individual. It is partly for this reason that leading bonding companies prefer a general contractor in control of the entire project and that mortgage and loan associations prefer loaning money on those projects under the management of a general contractor.

#### *Public Safety*

On a construction project the accident frequently requires that special care be taken by some responsible head to protect the entire working force from accident. In many states the injured employee may sue the owner in conjunction with the contractor where violation of safety requirements are found, and if the contractor is not good under judgment, can recover from the owner. Here again enters the question of responsibility for safety devices, which under separate contracts can easily be shifted, placing final responsibility upon the owner. The same situation is true with respect to injury of the public where again the assumption of all responsibility by a general contractor is a protection to the owner. In a case of the Government this danger is not so great, but cognizance should be taken of the fact that whatever action the Interdepartmental Board may take will be cited as a precedent for private work.

Separate contracts covering the installation of heating and ventilating, plumbing or electrical work are at present being used to a limited degree by public building departments, practicing architects and certain Federal bureaus. Large corporations have occasionally used separate contracts for mechanical installations when they had special access to the services of one or another of the mechanical trades or had regularly on their staffs men who were expert in these branches; but in instances of this nature the circumstances are considerably more favorable and the situation is different from that prevailing when a public or an individual owner is dealing with a company engaged in business for profit.

It may be stated therefore that precedent for the system exists, but the mere citation of such precedents as evidence that one or another business policy is economically sound, should not be allowed to stand in the face of analysis and demonstrated principles of management. An investigation of the origin of these precedents indicates that they were established not as the result of any conference of the various interests involved, but were put across solely in the interest of one party, irrespective of the interest of client owners, either public or private.

*(Continued next week.)*

**Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.**



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DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## CEMENT.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLD STORAGE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....Darby, Pa.  
Gramm, Price, Turner, Inc.,  
176 E. Tulpehocken St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## CORK FLOORING

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## CURTIS WOODWORK.

Gillingham Co. ....Norris and Richmond Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ELEVATOR DOOR CONTROLLERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## ELEVATOR DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.  
McDevitt, John F.....1403 N. 20th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ....Erie Ave. & "D" St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc..1844 N. Front St., Phila.  
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

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Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## HOT WATER GENERATORS.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## HOUSE CLEANING.

Keystone House & Window Cleaning Co.,  
1219 Filbert St., Phila.

## HOUSE MOVING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....34 S. 16th St., Phila.

## LEVELS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LINOLEUM.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LINOTILE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Gillingham Co. ....Norris and Richmond Sts., Phila.  
Ketcham, Howard.....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MILLWORK.

Gillingham Co. ....Norris and Richmond Sts., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories....1432 S. Penn Square, Phila.

## PAPERHANGING AND DECORATING.

Sukerman, S. ....2958 N. 22nd St., Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

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Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
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## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
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## REINFORCING BARS.

Lukens, Lewis N. ....19th and Washington Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.

## SAND AND GRAVEL.

DeFraen Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill, Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEET METAL AND ROOFING.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

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Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## SHORING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS.

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McFarland-Meade Co.,  
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McCarrick Bros. ....3138 N. 24th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

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John D'Lauro.....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair.....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## UNDERPINNING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## WALL BOARD, COMPO BOARD

Ketcham, Howard .....3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.

## WATER PAINT.

Southern, Wm. B.N. W. Cor. 12th and Spruce, Phila.

## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Builders' Specialty Co., Inc..1844 N. Front St., Phila.  
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## WHITENASHING.

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## WINDOW CLEANING.

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## WIRE PARTITIONS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.

## WIRE WORK.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.





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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 48  
November 28, 1923

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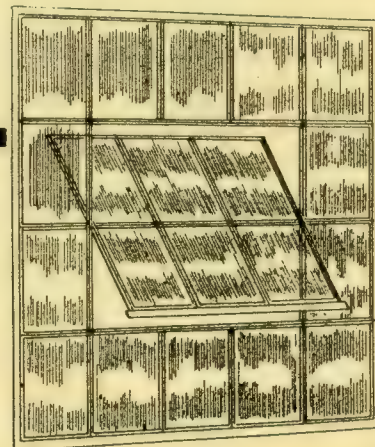
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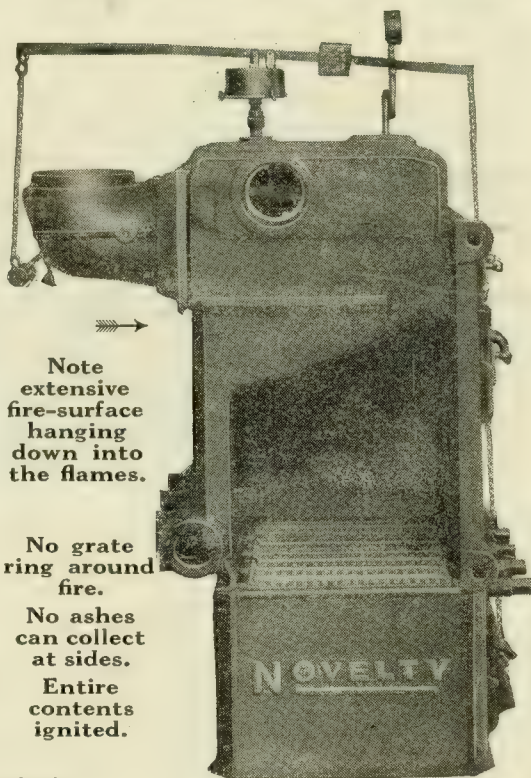
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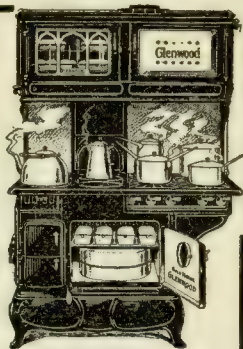


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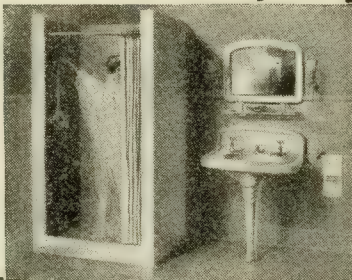
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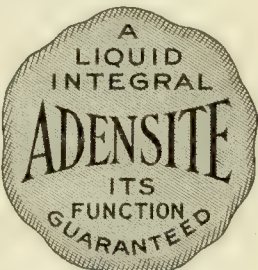
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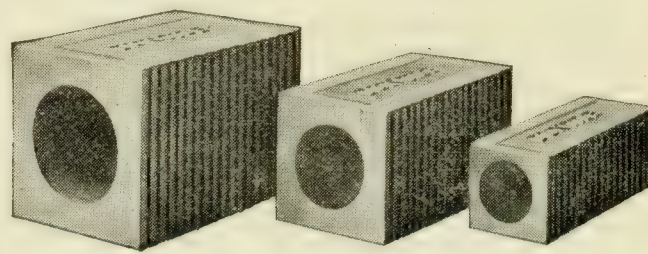
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# Advance Construction News

CONTEMPLATED CONSTRUCTION: ARCHITECTS AND OWNERS: COST LIMIT: LAST DAYS FOR FILING BIDS:

CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Apartment Houses (3),** West Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owner, name withheld. Brick, stone, steel, terra cotta, 3 and 4 stories, steam heat, electric light, slag roof, hardwood and composition and tile floors, tile and marble work. Plans in progress. Will be ready for sub-bids in 3 weeks.

**United States Custom House (alts.),** Fifth and Chestnut streets, Philadelphia. Architect, J. A. Wetmore, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Electric work, carpentry and mill work, pine floors, plastering, hardware, painting, mechanical equipment. Owners taking bids due December 5th.

**Supplies,** Philadelphia. Owner, Purchasing Agent T. F. Armstrong, 312 City Hall, Philadelphia. Fire clay blocks, lubricating oil, greases, etc.; paints and varnishes, etc.; brushes, brooms, etc.; fuel irons. Owner taking bids due December 6th at noon.

**Garage,** South side Haverford avenue, West of Fifty-fifth street, \$30,000. Owner, J. Prosper Eckert, Commercial Trust Building, Philadelphia. Brick, 1 story, 91x119 feet, slag roof, cement floors, steel sash, electric light. Owner will build.

**Residences (30), Garages (3),** \$145,700. Residences, Camac and Bigler streets. Garages, Twenty-third and Passyunk avenue. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, (2) 16x37 feet, (38) 14x31 feet, 7x10 feet, garages, 16x96 feet, 16x122 feet and 44x8½x82 feet, slag roof, hot water heating. Owner will build.

**School,** Pittston, Pa. Architects, Schroeder & Schmidt, Weizenkorn Building, Wilkes-Barre. Owners, St. Mary of the Assumption Church, Pittston, Pa. Brick, steel, 3 stories, 55x110 feet, slag roof, pine floors, electric light, metal lath, rolled steel sash roof ventilators, waterproofing, ornamental iron work (heating, plumbing and electric reserved). Plans in progress.

**Store and Apartments,** Northeast Corner Eleventh and Poplar streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, name withheld. Brick, 3 stories, 20x58 feet, slag roof, pine

floors, hot water heat, electric light, metal lath, store fixtures, bond. Plans in progress.

**Bank (add.),** Ridge avenue and Green Lane, Philadelphia, \$150,000. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Roxborough Trust Co., care of G. C. Littlewood, on premises. Limestone, 1 story, steam heat, electric light. Plans in progress.

**Stores (2) and Garage,** Northeast Corner Wakefield and Wistar streets, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, care of L. Lombardi, 203 Wistar street, Philadelphia. Stone, 1 story, 32½x135 feet, slag roof, pine and cement floors, plate glass, electric light, metal bulks. Plans in progress.

**Building (alts.),** 215 West Spangler street, Philadelphia. Architects, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Ralph W. Fischer, on premises. Plans in progress.

**Sales and Service Building (int. alts.),** Thirty-fourth and Chestnut streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Warren Webb Motor Co., 3427 Chestnut street, Philadelphia. Plans in progress.

**Factory (add),** 2119 West Toronto street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, King Bedding Co., on premises. Reinforced concrete, brick, 2 stories, 47 feet, 6 inches x 76 feet. Plans in progress.

**Church,** Cobb's Creek Boulevard and Cedar avenue, Philadelphia, \$250,000. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, St. Carthage's Roman Catholic Church, Rev. B. F. O'Neill, on premises. Stone, steam heat, electric lighting, slate roof, tile and marble work. Plans in progress.

**Show Room and Residences (11) (alts. and add.),** Parkway and Twentieth street, North side, Philadelphia. Architects, McLanahan & Bencker, Bellvue Court Building, Philadelphia. Owners, H. C. Taylor Co., on premises. Exterior plastering, interior alterations, tile and marble work, plate glass, general renovations. Plans in progress.

**Stores and Apartments (8),** Northeast Corner Thirty-seventh and Chestnut streets, Philadelphia. Architect, C. Schaef, 11 South

Sixteenth street, Philadelphia. Owner, Joseph Rabinovitz, Schubert Building, Philadelphia. Brick, 2 and 3 stories, 30x150 feet, slag roof, composition floors, vapor heat, electric light, tile and marble work, plate glass, flush bulks. Plans in progress.

**Mill Building,** Northwest Corner Allegheny and Boudinot street, Philadelphia. Architect, E. A. Stopper, Fuller Building, Philadelphia. Owners, Concordia Silk Mills, W. G. Ewald, on premises. Reinforced concrete, 3 stories, 52x103 feet. Plans in progress.

**Commercial Museum (alts.),** Thirty-fourth and Spruce streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Twenty-third Annual Auto Show of Philadelphia. Interior alterations. Plans in progress.

**Apartment House,** Southeast Corner Forty-fifth and Spruce streets, Philadelphia. Architect, W. Frisby Smith, 1345 Arch street, Philadelphia. Owner, Harry Beckerman, Fifth, Passyunk and Monroe streets. Terra cotta brick, 4 stories and basement, 200x160 feet (50 apartments), steam heat, electric light, metal lath, tile and marble work (sash, skylights, doors reserved), iron work, French slate roof, hardwood and composition floors, 3 automatic passenger and 1 freight elevators, incinerators, refrigerator system, vacuum, laundry equipment. Owner taking sub-bids due at once.

**Residences (6),** Sixty-sixth avenue and Fairhill street, Oak Lane, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Kerr & Witty, Thirteenth and Cambria streets, Philadelphia. Brick, 2 stories, 16x40 feet, hot water heat, electric light, metal lath, tile work, slag roof, hardwood and pine floors, garages in basement, cement work. Owners ready for sub-bids.

**Residences (49),** Van Dyke street, between Benner and Devereaux streets, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Frankford Real Estate Co., 4413 Frankford avenue, Philadelphia. Keene's cement wainscoting, brick, 2 stories, 14x35 feet, hot air heat, electric light, slag roof, pine floors. Owner taking sub-bids.

**Residence and Store,** 4725 Rising Sun avenue, Philadelphia, \$15,000. Architect, H. B. Weldon, 1627 Sansom street, Philadelphia. Owner, Frank S. Dykes, 4829 Rising Sun avenue, Philadelphia. Brick, 2 stories, 26x64 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Hospital Building,** Roosevelt Boulevard and Rhawn street, Philadelphia. Architect, P. H. Johnson, 1713 Sansom street, Philadelphia. Owners, Pennsylvania Mystic Shrine, W. Free-land Kendrick, 1337 Spring Garden street, Philadelphia. Brick, stone, steel, 2 stories. Architect ready for bids in 3 weeks.

**Office Building,** Chestnut street, between Sixth and Seventh streets, Philadelphia. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owner, Cyrus H. K. Curtis, Independence Square, Philadelphia. Brick, steel,

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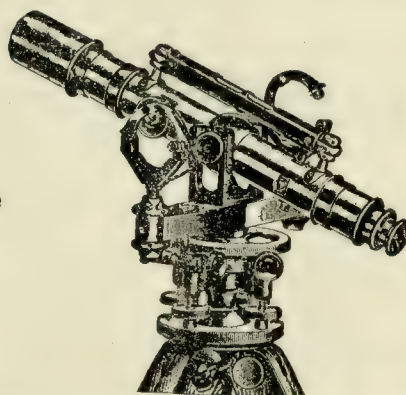
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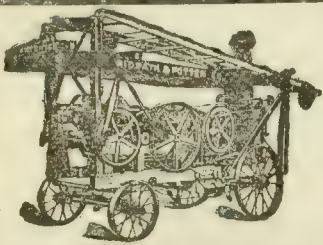
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**Store and Bakery**, Northwest Corner Sixtieth and Walton, Philadelphia. Architect, H. H. Kline, Bulletin Building, Philadelphia. Owner, L. Smuckler, care of architect. Brick, 2 and 3 stories, 32x85 feet, enamel brick, copper frame, hot water heat, electric light, tile work, kalamein doors, plate glass, metal ceilings, elevators, maple floors, slag roof. Architect ready for general bids.

**Plant**, Forty-fourth and Girard avenue, Philadelphia. Architect, C. Leslie Weir, 41 East Forty-second street, Philadelphia. Owners, American Ice Co., City Center Building, Philadelphia. Brick, steel, 3 stories, 206x40 feet, wing 38x51 feet, slag roof, cement floors, waterproofing, bond, rolled steel sash, iron work. Architect taking bids due December 4th.

**Division Office**, Germantown and Susquehanna avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, granite, steel, 2 stories and basement, 65x37 feet, slag roof, steam heat, electric light, metal lath, tile and marble work, bond, iron work, waterproofing, cement, rubber, tile floors. Architect taking bids due December 4th.

**Apartment House (alts.)**, Twenty-first and Walnut streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Morris Finkle, care of architect. Architect taking bids due December 4th at 10 A. M.

**Test Borings**, Contract No. 6, Philadelphia. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Test borings for bridge over Schuylkill River and for subway and elevated railway construction in West Philadelphia. Owners taking bids due December 4th at noon. Bond.

**Store and Office Building**, 4622-24 Frankford avenue, Philadelphia. Architect, E. L. Rothschild, 1420 Chestnut street, Philadelphia. Owner, Benjamin Ginsburg, Pennsylvania Building, Philadelphia. Brick and steel, 2 stories, 50x33 feet, electric light, slag roof, oak and pine floors, iron work. Architect and owner taking bids due as soon as possible.

**Apartment Building (alts.)**, New Garage, Percy and Parrish streets. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, Samuel Shechtman, 712 Parrish street, Philadelphia. Brick, 1 story, 25x33 feet, slag roof, cement floors. Architects taking bids.

**Garage (rear)**, 6521 North Thirteenth street, Philadelphia. Architect and owner, C. Theodore Beswanger, R. A., on premises.

Brick, 1 story, 21x13 feet (painting, glazing, electric work, steam heat reserved), slag roof, cement floors. Owner taking bids due as soon as possible.

**New Bulk**, 706 South Broad street, Philadelphia. Architect, Le Roy B. Rothschild, 215 South Broad street, Philadelphia. Owner, J. C. Kahn, Morris Building, Philadelphia. Marble work, plate glass, metal bulks. Owner taking bids due as soon as possible.

**Alterations and Additions**, 4719 North Broad street, Philadelphia. Architect, Louis H. Goettelsan, Otis Building, Philadelphia. Owner, name withheld. Brick, oak floors, steel work, carpentry and mill work, plastering, tile work. Architect taking new bids due as soon as possible.

**Garage and Show Room**, Northeast Corner Sixty-third and Woodbine avenue, \$50,000. Architect, private plans. Owner, Anthony Gallagher, 3700 Haverford avenue, Philadelphia. Brick, 2 stories, 60x151 feet, 6 inches, central heating, electric lighting, cement floors. Owner will build.

**Workshop**, 879-81 North Randolph street, Philadelphia, \$5,000. Architect, private plans. Owners, M. Zussman & Sons, 502 Poplar street, Philadelphia. Brick, 2 stories, 57 feet, 9 inches x 28 feet, 3 inches, electric light, slag roof, pine floors. Owners will build.

**Residences (2)**, West side Montour street, North of Shelmire, \$4,250. Architect, private plans. Owner, A. Irving Knickerbocker, 6102 Torresdale avenue, Philadelphia. Frame, 2 stories, 14x51 feet, hot water heating, electric lighting. Owner will build.

**Residences**, Southeast Corner Hennig and Solly avenue, Philadelphia, \$4,000. Architect, private plans. Owner, W. E. Shock, Burholme and Oxford avenue, Philadelphia. Frame, 1 story, 34x18 feet, hardwood and pine floors, electric lighting. Owner will build.

**Residences (4)**, (2) West side Claridge street, North of St. Vincent street, and (2) South side Cottman street, East of Montour, \$5,000 each. Architect, private plans. Owner, Michael Glazer, 1238 North Lawrence street, Philadelphia. Frame and stucco, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (2)**, North side Cottman street, East of Duncan Road, \$5,000 each. Architect, private plans. Owner, August Glazer, 1646 North Fourth street, Philadelphia. Frame and stucco, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences (3)**, (1) South side Shelbourne avenue, East of Claridge, and (2) East side Verree Road, South of Afton street, \$6,000 each. Owner, Edward Davis, 7301 Oxford avenue, Philadelphia. Frame, 2 stories, (1) 26x30 feet, and (2) 16x40 feet, shingle roof,

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**Residences (39),** Twelfth and Bigler streets, \$134,800. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, (2) 16x37 feet and (37) 14x31 feet, 7x10 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (3),** West side Cottage street, South of Devereaux, \$4,500 each. Architect, private plans. Owner, Fred W. Deitrich, Frankford avenue and Devereaux street. Brick, 2 stories, 16x34 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (12),** Crittenden, Anderson and Durham streets, \$10,000 each. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Stone, 3 stories, 23x39 feet, slate and tile roof, hot water heat, electric light, tile work, hardwood and pine floors. Owner will build.

**Manufacturing Building (add.) and Warehouse.** West side Milnor street, South of Bleigh street, \$25,000. Architect, private plans. Owners, L. Martin Co., on premises.

Concrete block, second story add., 119 feet, 6 inches x 89 feet, 3 inches, warehouse, 1 story, 60x30 feet. Owners will build.

**Shop and Store,** Northeast Corner Market and Allison streets, Philadelphia, \$10,000. Architect, John H. Taylor, 4717 Warrington avenue, Philadelphia. Owner, Harry E. Miller, 5511 Market street, Philadelphia. Brick, 2 stories, 48x24 feet, 1 story, 50x50 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Garage,** North side Kingston street, East of Richmond street, \$10,000. Architect, private plans. Owner, Joseph S. Wenciskey, 3592 Richmond street, Philadelphia. Brick, 1 story, 40x72 feet, slag roof, cement floors, electric lighting. Owner will build.

**Office and Residence (alts. and add.),** 5 East Highland avenue, \$3,800. Architect, private plans. Owner, Melvin H. Gerbe, on premises. Brick, 2 stories add., 15x46 feet, general alterations. Owner will build.

**Garage,** North side Sedgwick street, West of Crittenden street, \$2,000. Owner, Albert T. Bauerle, 201 Bulletin Building, Philadelphia. Stone, 2 stories, 21 feet, 4 inches x 23 feet, 4 inches, cement floors. Owner will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Residence,** West side Prospect avenue, south of New Street. \$15,000. Owner, Miss Earle, Stenton avenue and New street, Philadelphia. Stone, 2 stories, 37x24 feet, 8x16 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Stokes Bros., 6723 Musgrave street, Philadelphia.

**Apartment and Store Building (alts. and add.),** 210 West Cheltenham avenue. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Contract awarded George B. Smith & Son, 606 North Sixteenth street, Philadelphia.

**Alterations and Additions,** 3162-64 Kensington avenue, Philadelphia. Architect, Edward Schoppe, 316 South Fifteenth street, Philadelphia. Owner, William Horner, on premises. Brick, cut stone, steel, 63x44 feet, slag roof, composition, mosaic and oak floors, metal lath, marble work, galvanized iron skylights, bond, metal bulks, iron work, metal ceilings, terra cotta. Contract awarded Roland C. Bale, 1823 East Wishart street, Philadelphia.

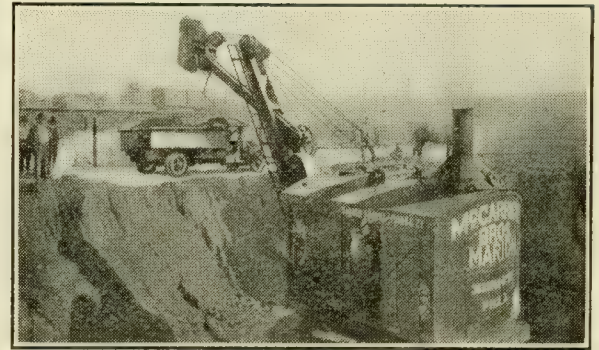
**Residence (alts. and add.),** 1348 Hunting Park avenue, Philadelphia, \$2,700. Architect, private plans. Owners, Estate of R. Metzger, on premises. Excavating, stone work, con-

crete, brick, wall board, wiring, plumbing, slag roof, 1 story, 14x38 feet. Contract awarded Albert Dunlap, 7223 Oak avenue, Philadelphia.

**Store (alts.),** 1031 Chestnut street, Philadelphia. Architect, Edgar A. Wightman, 1213 Filbert street, Philadelphia. Owners, Wuritzer Co., 809 Chestnut street, Philadelphia. Tile and marble work, hardware, electric light, metal lath, iron work, painting and glazing, plastering, elevators, doors, carpentry, slag roof, plumbing. Contract awarded J. Trichonsky, 242 Norris street, Philadelphia.

**Store and Residence (alts. and add.),** 2546 West Lehigh avenue, \$5,000. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, G. Hillwerth, 2613 West Lehigh avenue, Philadelphia. Brick, 1 story, 16x14 feet, 1 story, 43x30 feet, general alterations. Contract awarded to B. Sherman, 1226 North Eighth street, Philadelphia.

**Garage,** Southeast Corner Fifty-fourth and Westminster avenue, Philadelphia, \$15,000. Architect, Francis P. Cannavan, Seventieth



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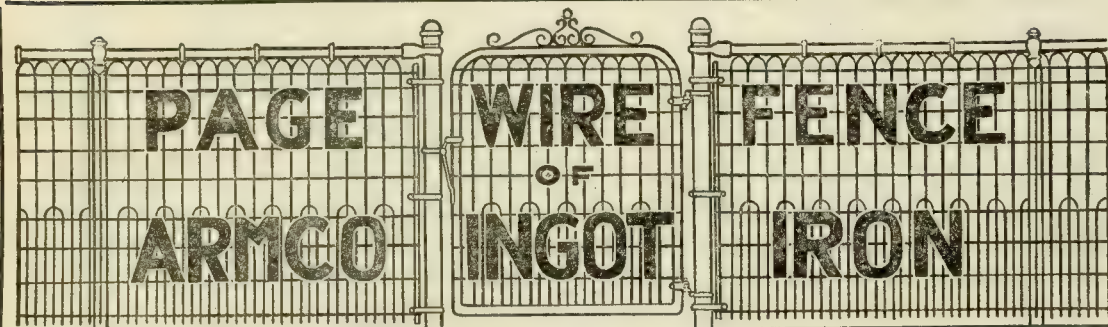
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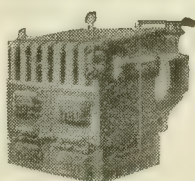
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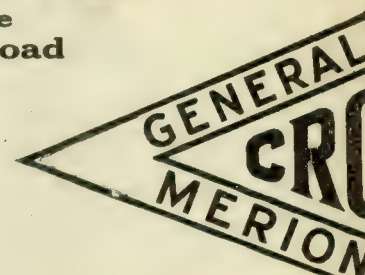
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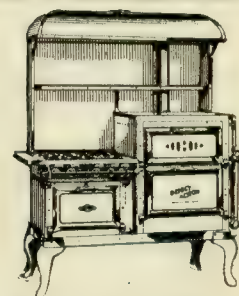
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and Greenway avenue, Philadelphia. Owner, Dr. John C. Deal, 3911 Spruce street, Philadelphia. Brick, 1 story, 74x103 feet and 67x67 feet, cement floors, electric work. Contract awarded to Harry G. Walters, 412 North Fortieth street, Philadelphia.

**Home for Children (alts.)**, Northwest Corner Twenty-ninth and Allegheny, \$22,000. Architect, Paul Monaghan, Presser Building, Philadelphia. Owners, Catholic Home for Destitute Children, on premises. New slate roof. Contract awarded to W. Edward Pierce, Juniper and Pine streets.

**Store and Storage Building (add. and alts.)**, Southwest Corner Front and Pine streets, Philadelphia, \$10,000. Architect, private plans. Owners, John Polin & Sons, 102 Pine street, Philadelphia. Brick, 3 stories, 20 feet, 6 inches x 60 feet, general alterations. Contract awarded to Sordickoff & Sikver, 2516 South Sixth street, Philadelphia.

**Residence and Garage**, Northwest Corner Rhawn and Frontenac streets, \$10,000. Architect, private plans. Owner, George McMahon, 2825 Diamond street, Philadelphia. Frame, 2 stories, 32x46 feet, garage, 1 story, 18x20 feet, concrete tile roof, hardwood, cement and pine floors, hot water heating. Contract awarded to Paul Brosz, 2511 West Huntingdon street, Philadelphia.

**Residences (4)**, South side St. Vincent street, East of Tabor, \$4,500 each. Architect, private plans. Owner, Lena Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x40 feet, hot water heat, electric lighting. Contract awarded to Henry Perlman, 1225 Cottman street, Philadelphia.

**Warehouse**, 1223-25 North Twenty-sixth street, Philadelphia, \$6,000. Architect, private plans. Owner, William Cassidy, 866

North Twenty-sixth street, Philadelphia. Brick, 1 story, 44x51 feet and 45x35 feet, slag roof, cement floors. Contract awarded to Richard McGlathory, 2306 North Twenty-sixth street, Philadelphia.

**Residences (2)**, South side Selma street, West of Bustleton avenue, \$5,000 each. Architect, private plans. Owner, William Hoehn, Verree Road, Fox Chase, Philadelphia. Frame, 2 stories, 16x36 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting. Contract awarded to P. G. Goodnow, 111 Huntingdon Pike, Philadelphia.

**Store and Storage Building (alts. and add.)**, Southwest Corner Camac and Jefferson streets, Philadelphia, \$5,500. Architect, private plans. Owner, Apik Chalikian, 1223 Jefferson street, Philadelphia. Brick, 2 stories, 17x7 feet, slag roof, general alterations. Contract awarded to L. M. Shestack, 826 Arch street, Philadelphia.

**Garages (2)**, East side Ella street, North of Tioga, \$6,400. Architect, private plans. Owner, H. P. Boone, Front and Tioga streets, Philadelphia. Brick, 1 story, 36x17 feet, 17x25 feet, and 1 story, 48x17 feet, cement floors, electric work. Contract awarded to M. Marriott, 2912 North Third street, Philadelphia.

**Residence**, South side Tyson street, East of Frontenac street, \$7,200. Architect, private plans. Owner, Charles B. Ray, 911 Fillmore street, Philadelphia. Frame, 2 stories, 24x24 feet, shingle roof, hardwood and pine floors, steam heating, electric lighting. Contract awarded to George Loper, 8330 Cottage street, Philadelphia.

**Store and Residence (alts.)**, Southeast Corner Thirteenth and Snyder avenue, \$6,000. Owner, Harry Craig, on premises. General al-

terations. Contract awarded to H. A. Hamilton, Greene street and Chelten avenue.

**Rear Addition**, 1620 Spruce street, Philadelphia, \$6,000. Architect, private plans. Owner, J. H. Whittewell, on premises. Brick, 2 stories, 22x48 feet, slag roof, concrete and pine floors, elevators. Contract awarded to H. E. Grau, 1707 Sansom street, Philadelphia.

**Apartment (alts. and add.)**, 1511 Foulkrod street, Philadelphia, \$6,000. Architect, Edward Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Kuhn & Lowery, Fifth and Rockland streets, Philadelphia. Brick, 2 stories add., 14x27 feet, 8 inches, general alterations. Contract awarded to John Fotheringham, 1000 Arrott street, Philadelphia.

**Residences (2)**, North side Burgess street, West of Bustleton, \$5,100 each. Architect, private plans. Owners, Scharsch & Burgess, Seventeenth and Erie avenue, Philadelphia. Frame, 2 stories, 26x26 feet, shingle roof, pipeless heaters, electric lighting. Contract awarded to Charles S. Olson, 1401 Ridge avenue, Philadelphia.

**Store (add.)**, 152 North Second street, Philadelphia, \$6,500. Architect, private plans. Owners, Samuel & Philip Surft, on premises. Brick, 3 stories add., 13x23 feet, slag roof, electric work. Contract awarded to Clayton Lofland, 231 North Water street, Philadelphia.

**Residence and Office (alts. and add.)**, 5724 Chester avenue, \$3,500. Architect, private plans. Owner, Thomas J. O'Neill, on premises. Brick, 1 story, 16x17 feet, general alterations. Contract awarded to Samuel A. Regan, 5312 Thompson street, Philadelphia.

**School (alts.)**, Southeast Corner Twelfth and Wharton streets, Philadelphia, \$3,000. Architect, private plans. Owners, Board of Education, Nineteenth street, above Chestnut, Philadelphia. General alterations, plumbing. Contract awarded to Carr & Courtney, Twenty-third and Green streets, Philadelphia.

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**Garage**, Southeast Corner Orianna and Huntingdon streets, Philadelphia, \$3,000. Architect, private plans. Owner, A. J. Fetig, 1014 Magee street, Philadelphia. Brick, 1 story, 20x44 feet, cement floors. Contract awarded to William Freiling, 2553 North Fifth street, Philadelphia.

**Laundry (add.)**, Northwest Corner Twenty-seventh and Columbia avenue, \$4,500. Architect, private plans. Owners, Empire Laundry Co., Twenty-seventh and Columbia avenue, Philadelphia. Brick, second story add., 35½x30½ feet, slag roof. Contract awarded to Albert H. Moorshead, 67 Laurel street, Philadelphia.

**Residences**, North side New Queen street, West of Thirty-fifth street, \$4,500 each. Architect, private plans. Owner, David Trill, 3520 Ainslie street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hot water heating, electric lighting. Contract awarded to Earle L. Beckham, 3505 Queen Lane.

**Residence and Store (alts.)**, 228 North Tenth street, Philadelphia, \$2,000. Architect, private plans. Owner, G. H. Mayer, 728 Sansom street, Philadelphia. General alterations. Contract awarded to Lester M. Shestack, 826 Arch street, Philadelphia.

**Building (alts.)**, 274 South Twentieth street, Philadelphia, \$2,000. Architect, private plans. Owner, S. Amsterdam, 26 South Seventeenth street, Philadelphia. General alterations. Contract awarded to S. Yellin & Son, 3125 Montgomery avenue.

**Distillery (add.)**, Northwest Corner Swanson street and Snyder avenue, \$7,000. Architect, William Fuller, Bulletin Building, Philadelphia. Owners, Publicker Commercial Alcohol Co., on premises. Brick, 3 stories add., 35x35 feet. Contract awarded to Samuel Levin, 1631 South Fifth street, Philadelphia.

**Residence**, Northwest Corner Fowler and Fleming streets, \$5,915. Architect, private plans. Owner, A. R. Mays, 511 East Connaroe street, Philadelphia. Frame, 1 story, 38x38 feet, electric light, hardwood and pine floors. Contract awarded to Martigani & Pepe, 1224 Ritner street, Philadelphia.

**Apartment (alts. and add.)**, 6525 Woodland avenue, \$3,800. Architect, private plans. Owner, D. Miller, 604 South Second street, Philadelphia. Brick, 2 stories add., 10x20 feet, slag roof, general alterations. Contract awarded to Morris Yacknitz, 4544 North Warnock street.

**Garage and Shop**, 5410 Master street, Philadelphia, \$3,500. Architect, private plans. Owner, Jane T. Rixon, on premises. Brick, 2 stories, 18x53 feet, slag roof, hot water heat. Contract awarded to Fred A. Rixon, 5410 Master street, Philadelphia.

**Garage**, 1316 Frankford avenue, Philadelphia, \$3,500. Architect, private plans. Owner, Hugh Lamona, on premises. Brick, 1 story, 36 feet, 8 inches x 39 feet, cement floors. Contract awarded to Edward O. Sherry, 188 West Girard avenue.

**Residence (alts. and add.)**, 4611 Paul street, Philadelphia, \$2,800. Architect, private plans. Owner, William H. Castor, on premises. Brick, 2 stories add., 15x16 feet, slag roof, general alterations. Contract awarded to Buzby & Propert, 1658 Unity street, Philadelphia.

**Residences (2) (alts.)**, 2144-46 North Uber street, Philadelphia, \$2,500 each. Architect, private plans. Owner, Samuel Steinbach, 1920 West Susquehanna avenue, Philadelphia. General alterations. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

**Residence (alts. and add.)**, 3108 Montgomery avenue, \$3,750. Architect, private plans. Owner, Nathan Gornstein, 938 South Ninth street, Philadelphia. Brick, 1 story add., 13x8 feet, general alterations. Contract awarded

to Sanberg & Naulty, 909 Walnut street, Philadelphia.

**Store and Office (repairs)**, 1518 Sansom street, \$3,400. Owner, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. General fire repairs. Contract awarded to F. B. Davis & Son, 240 North Sixteenth street.

**Church (alts.)**, 1415-17 Wharton street, Philadelphia, \$3,165. Architect, private plans. Owners, Free Library of Philadelphia, Thirteenth and Locust streets, Philadelphia. General alterations. Contract awarded to J. F. Crowthaniel, 4528 North Carlisle street.

**Apartment (alts.)**, 332 West Manheim street, Philadelphia, \$3,000. Owner, Anthony Flannery, 5051 Wade street, Philadelphia. General alterations. Contract awarded to Alex. H. Jerankerberger, 3032 West Dauphin street, Philadelphia.

## PENNSYLVANIA

# Construction News

**Residence**, Chestnut Hill, Pa. Architect, R. R. McGoodwin, 16th and Walnut St., Philadelphia. Owner, Mrs. Norton Downs, Chestnut Hill, Pa. Plans in progress.

**School**, Uniontown, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Coal Township School District, Mr. Brennan, secretary, Uniontown. Brick, 2 stories, 74x158 feet, slag roof, hardwood floors, metal lath, tile and marble work, slate treads, roof ventilators (heating plumbing, electric and ventilating reserved). Plans in progress. Owners will take bids in two weeks.

**Residence**, Scranton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Charles Schroeder, care of architects. Frame, 2½ stories, 30x35 feet, slate roof, hardwood floors, electric light, vapor heat, tile work. Owner will build.

**Bungalow**, Northampton, Pa. Architect, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, J. Rumsey, Northampton, Pa. Brick and tile, 1 story, 32x62 feet, slate roof, hardwood and pine floors, hollow tile, steam or hot water heat, electric light, tile work. Plans in progress.

**Community Building**, South Side, Bethlehem, Pa., \$150,000. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, Bethlehem Jewish Community Centre Association Aaron Polruch, Wyandotte Hotel, Bethlehem, Pa. Brick, steel, 3 stories, 130x100


feet, slag roof, hardwood floors, electric light, tile and marble work, rolled steel sash, ornamental iron work. Plans in progress.

**Factory (add.)**, Allen and Meadow streets, Allentown, Pa. Architect, D. Levy, 949 Hamilton street, Allentown, Pa. Owners, American Beauty Silk Co., care of architect. Reinforced concrete, brick and steel, 3 stories, 66x90 feet, slag roof, concrete and wood floors, electric light, hollow metal sash, kalamein doors. Plans in progress.

**Bank (alts. and add. from Store)**, Scranton, Pa., \$150,000. Architects, Morton French & Co., 19 West Forty-fourth street, New York. Owners, Lincoln Trust Co., J. A. Linen, Jr., president, 130 Wyoming avenue, Scranton, Pa. Brick, stone, steel, 5 stories 40x160 feet, general alterations, tile and marble work. Plans in progress.

**Club House (alts. and add.)**, 124 South Main street, Scranton, Pa. Architect, Vincent Russoniello, Scranton Life Building, Scranton, Pa. Owners, United Italian Societies, Peter Croni, Scranton, Pa. Brick, 2 stories, 50x6 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble work, roof ventilators, ornamental iron work. Plans in progress.

**Church and Residence**, Washington avenue, Scranton. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Hellenic Orthodox Church, Evangelismis, care of archi-



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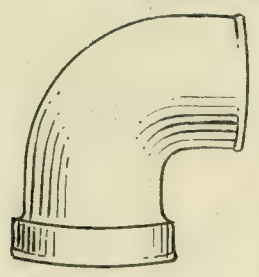
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teets. Brick, hollow tile, stucco, 1 story and basement, and 2 stories, 32x90 feet, slate roof, hardwood floors, hollow tile, vapor vacuum heat, electric light, tile and marble work, art glass, ornamental iron work. Plans in progress.

**Office Building**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, W. Fraim, 549 North Lime street, Lancaster, Pa. Brick, 2 stories, 75x60 feet, slate roof, electric lighting. Preliminary plans in progress.

**Residence**, Front and Edward streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Robert Y. Stuart, 3109 North Second street, Harrisburg, Pa. Brick, stucco, 2½ stories, 58x26 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

**Residence**, Bellevue Park, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, A. L. Aderton, 22

North Nineteenth street, Harrisburg, Pa. Stone and frame, 2½ stories, 40x34 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

**Residence (alts.) to Offices and Stores**, 25 South Third street, Harrisburg. Architect, G. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, A. Belehas, 327 Market street, Harrisburg, Pa. Partitions, electric lighting, hardwood floors, general interior alterations. Plans in progress.

**Factory and Storage Building**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consolidated Cigar Co., Prince and Lemon streets, Lancaster. Brick, steel, plank, 3 stories and basement, 83x90 feet, slag roof, fire and concrete floors, freight elevator, electric light, hollow metal sash, fire doors. Architect ready for bids.

**Greenhouse and Service House**, Colonial Park, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Park Place Nursery Co., Colonial Park, Harrisburg. Concrete block and stucco, 1 story, 24x94 feet, asbestos shingle roof, reinforced concrete floors, steam heat, electric light, water system. Owner ready for sub-bids.

**Bank**, Burnham, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, First National Bank of Burnham, I. E. Mayes, Burnham, Pa. Brick, stone, 1 story, 30x50 feet, built-up roof, electric light tile work, rolled steel skylights, vault, roof ventilators, metal window guards. Owners ready for sub-bids.

**Oil Station and Auto Accessory Shop**, 730 Penn street, West Reading. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owner, William A. Bohn, 730 Penn avenue, West Reading, Pa. Concrete and stucco, 1 story, 20x25 feet, asbestos shingle roof, cement floors, steam heat, electric light. Plans in progress. Owner will sub-let.

**Lodge (alts. and add.)**, Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Fraternal Order of Eagles, care of architects. Brick, steel, 6 stories, 60x80 feet, tin roof, pine and tile floors, hollow tile, (2) elevators, electric light, metal lath, tile and marble work, hollow metal sash and skylights, general alterations, iron stairs, ornamental iron work. Architects about ready for bids.

**Residences (4)**, Latham Park, Pa., and **Garages**. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, B. L. Shapiro, 4633 North Broad street, Philadelphia. Brick and stucco, 2½ stories, 33x60 feet, 1 story, 22x20 feet, hot water heat, electric light, tile work, cement work, slate roof, hardwood floors. Owner ready for sub-bids in ten days.

**Residence (alts. and add.)**, Pike County, Pa. Architects, McLanahan & Bencker, Bellevue Court Building, Philadelphia. Owner, J. W. Mott, on premises. Shingle, general alts. and add., asbestos shingle roof. Plans in progress. Owner will superintend construction.

**Parochial School**, Marshall and Buttonwood streets, Norristown, Pa. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, St. Francis' Roman Catholic Church, F. J. Ross, D. D., Norristown, Pa. Architect ready for bids in 6 weeks.

**Country Club**, near Carlisle, Pa., \$75,000. Architect, not yet selected. Owners, Carlisle Country Club, Walter Stuart, president, 251

South Hanover street, Carlisle, Pa. Work contemplated.

**School**, Prospect Park, Moore, Delaware County, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Board of Education of Prospect Park, B. F. Moore, president, Prospect Park, Pa. Brick, cut stone, 2 stories, 82x135 feet, slag roof, linoleum and maple floors, hollow tile, safety treads (heating, plumbing, ventilating and electric work reserved), metal lath, rolled steel sash, skylights, fire doors, bond, iron stairs, ornamental iron work. Architect will be ready for bids December 1st, due December 28th.

**High School Building**, West Marshall street, Norristown, a. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, School District of Norristown, C. I. Moore, secretary of Spec. Building Committee, High School Annex, 717 Dekalb street, Norristown. Installation of plumbing, drilling of artesian wells, installation of necessary equipment for pumping and storing of water. Deposit, \$25. Refund, \$25. Certified check of 5 per cent. Owners taking bids due December 11th at 8 P. M.

**Apartment (alts. and add.)**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, Mr. McCullough, care of architect. Preliminary plans in progress.

**Cottage**, Marple Road, Rose Tree, Pa. Architect, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Charles Leedom, Rose Tree Farms, Pa. Architects taking bids due November 30th at noon.

**City Hall**, Pottstown, Pa. Architect, Warren D. Heinly, 7 South Fourth street, Reading, Pa. Owners, City of Pottstown, Pottstown, Pa. Owners taking bids due December 1st.

**Store and Loft Building**, Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Edward F. Ferris Trustees, care of architect. Brick, limestone, fireproof, 3 stories and basement, 80x160 feet, Barrett roof, cement and wood floors, hollow tile, electric light, tile and marble work, rolled steel sash, fire doors, iron stairs, ornamental iron work. Architect taking bids due November 30th.

**Road Work**, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa. Owners taking bids due December 11th at 10 A. M.

Beaver County, Route 204, Fallston and Patterson Heights Borough and Patterson Township, length 10,530 feet. One course reinforced concrete and hillside vitrified brick. Certified check, \$1,500.

Delaware County, R-180, Chester Township, 1,745 feet. One course reinforced concrete. Certified check, \$1,000.

Greene County, R-109, A-2678 and 2710, Franklin and Washington Townships, 16,948 feet. One course reinforced concrete. Check, \$3,000.

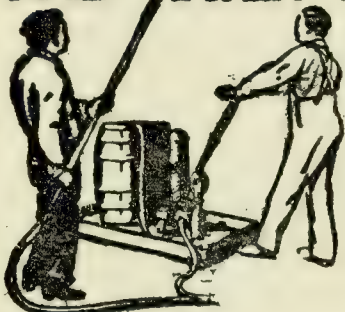
Indiana County, R-54, Cherryhill and Rayne Townships, 18,421 feet. One course reinforced concrete. Certified check, \$3,000.

Jefferson County, R-61, A-1736, Pine Creek Township, 8,769 feet. One course reinforced concrete. Certified check, \$1,500.

Northumberland County, R-1, A-2136, Lower Mahanoy Township, 7,424 feet. Grading and drainage. Certified check, \$1,000.

Somerset County, R-50, Spur A, A-2731, 2732 and 2733. New Centerville Borough, Milford Township and Rockwood Borough, 14,062 feet. Either bituminous surface course on

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concrete foundations and hillside vitrified brick or one course reinforced concrete and hillside vitrified brick. Certified check, \$3,000.

Westmoreland County, R-187, Sec. 4A, Salem Township, 13,453 feet. One course reinforced concrete and hillside vitrified brick. Check, \$3,000.

Westmoreland County, R-187, Sec. 4B, Salem Township, 25,693 feet. One course reinforced concrete and hillside vitrified brick. Check, \$4,000.

Resurfacing, Jefferson County, A-2404, Young Township, 4,151 feet. One course reinforced concrete. Certified check, \$1,000.

## Pennsylvania

### Contracts Awarded

**Residence**, Jericho Road, Highland Farms, Abington, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, Mrs. G. L. Harding, Abington, Pa. Stone, 2½ stories, 32x40 feet, hot water heat, electric light, shingle roof, hardwood floors, tile and marble work. Contract awarded Roy Randall, Horsham, Pa.

**Cottage**, Pocono Pines, Pa., \$10,000. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame, stucco, 2½ stories, 32x44 feet, slate roof, pine floors, electric light. Contract awarded to Fred Fisher & Son, Pocono Pines, Pa.

**Residence**, Wilkes-Barre, Pa. Architect, H. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Lee Knolly, 129 Sandom street, Wilkes-Barre, Pa. Brick, cut stone, concrete, 36x25 feet, asphalt shingle roof, pine floors, steam heat, electric light. Contract awarded to Le Valley & Wesley, Kingston, Pa.

**Bungalow**, Trucksville, Pa. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owner, Dr. Louise M. Stoeckel, Trucksville, Pa. Frame, 1½ stories, 32x32 feet, asphalt shingle roof, hardwood floors, electric light. Contract awarded to Le Valley & Wesley, Kingston, Pa.

**Residence**, 115 Charles street, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre. Owner, name withheld. Cinder block and stucco, 2½ stories, 24x27 feet, asphalt shingle roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Le Valley & Wesley, Kingston, Pa.

**Store and Loft Building**, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, E. Stern, care of architect. Brick, steel, 3 stories, 40x90 feet, slag roof, pine floors, steam heat, electric light. Contract awarded to J. McGlynn and F. H. Franklin, Wilkes-Barre, Pa.

**High School**, Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, School District of Norristown, C. I. Moore, secretary of Special Building Committee, High School Annex, 717 Dekalb street, Norristown. Contract awarded to Chester Cont. & Const. Co., Chester, Pa. Electric, Rosse Elec. Co., Beach and Brown streets, Philadelphia.

**Manufacturing Building**, Lansdowne, Pa. Engineer, S. W. Marshall, Weightman Building, Philadelphia. Owners, Keystone Cap Co., on premises. Brick and steel, 1 story, 60x202 feet, slag roof, cement floors, rolled steel sash. Contract awarded W. W. Cochran, 2056 North Van Pelt street, Philadelphia.

**Storage Building**, Lancaster, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Brothers, Third and Spruce streets, Philadelphia. Frame, fireproof, 1 and 2 stories, 60x125 feet, slag roof,

cement floors, rolled steel sash, sliding doors. Contract awarded Herman Wohlsen, Lancaster, Pa.

**Residence (alts. and add.)**, Rosemont, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Mrs. A. Shinn Nair, care of architect. Contract awarded R. C. Ballinger, 925 Walnut street, Philadelphia.

**Residence**, Wyndmoor, Pa. Architect, J. William Shaw, Wayne, Pa. Owners, J. Carey & Friedman, Overbrook, Pa. Hollow tile and stucco, 2½ stories, 25x36 feet, shingle roof, oak and pine floors, electric light, hot water heat, iron work. Contract awarded to George Worth, Wyndmoor, Pa.

## New Jersey

### Construction News

**School (add.)**, Roebling, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, School District of Florence Township, E. Robbins, Florence, N. J. Brick, 3 stories, 9 rooms, slag roof, maple floors, hollow tile, safety treads (heating and electric reserved), metal lath, tile work, bond, iron stairs. Plans in progress.

**School (add.)**, Florence, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, School District, Florence Township, E. Robbins, Florence, N. J. Brick, 2 stories, 12 rooms and auditorium, slate roof, maple floors, hollow tile, safety treads (heating, electric and plumbing reserved), metal lath, tile work, bond, iron stairs. Plans in progress.

**Bank Building**, Millville, N. J. Architect, T. E. Ash, 1012 Walnut street, Philadelphia. Owners, Mechanics' National Bank, care of Dr. C. R. Slade, president, Millville, N. J. Brick, stone, 1 and 2 stories, 44x82 feet, vapor heat, electric light, slag roof, marble tile and oak floors. Working plans in progress.

**Church and Sunday School**, Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, First Presbyterian Church, Rev. Herbert Ure, 130 Euclid avenue, Woodbury, N. J. Stone, 1 and 2 stories. Plans in progress.

**Hospital Buildings (13)**, Asyla, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Tuberculosis Hospital Association, care of Camden County Board of Chosen Freeholders, Court House, Camden, N. J. Brick, concrete, steel, various sizes. Owners taking bids due December 17th at 2 P. M. Plans may be secured from architect's office.

**School**, Allentown, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Borough of Allentown, E. H. Porter, Allentown, N. J. Brick, 2 stories, 116x60 feet, slag roof, yellow pine floors, hollow tile, safety treads, roof ventilators, metal lath, steam heat, electric light, bond. Owners taking bids due December 19th.

**School**, Westville, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Deptford Township, A. C. Clement, Westville, N. J. Brick, 1 story and basement, 98x68 feet, yellow pine and cement floors, safety treads, roof ventilators (heating and electric work reserved), metal lath, hollow metal skylights, bond. Owners taking bids due December 14th.

**Club House (alts. and add.)**, Salem, N. J. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Eagle Island Gunning Club, on premises. Porches, plumbing, heating, interior alterations. Architect taking bids.

**Central School**, Deptford Township, Gloucester County, N. J. Architect, Harry A. Hill,

Broad Street Bank Building, Trenton, N. J. Owners, District Clerk of Almonessing, School House, Deptford Township, N. J. Brick, hollow tile, steel, 1 story and basement, 98x68 feet (plumbing, heating, electric separate), shingle roof, maple floors, metal lath. Owners taking bids due December 14th.

**Bridge**, over Cedar Bonnet, Manahawken Bay, Ocean County, N. J. Engineer, John L. Vogel, 772 Broad street, Newark, N. J. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House, Trenton, N. J. 80-foot single leaf bascule highway span, 30-foot roadway, concrete piers, timber bents, trestle approaches. Owners taking bids due December 10th at noon.

**Bridge**, Freehold, Monmouth County, N. J. Engineer, George K. Allen, Jr., 60 Broad street, Red Bank, N. J. Owners, Board of Chosen Freeholders, County of Monmouth, Bryant B. Newcomb, Freehold, N. J. Concrete, 70-foot plate girder span. Owners taking bids due December 5th at 11 A. M.

**Road Work**, New Jersey. Owners, State Highway Commission, A. Lee Grover, Chief Clerk, State House, Trenton, N. J.

Route 5, Section 12, Netcog-Canal Culvert, Morris County, excavation, rock excavation, reinforced concrete pavement, pipe drains, concrete curbs, wire rope railing.

Route 16, Section 6A, Bernardsville-Passaic River, Morris and Somerset Counties. Excavation, reinforced concrete pavement, pipe drains, concrete curb, wire rope railing. Owners taking bids due December 5th at noon.

**Bridge** over Saddle River, Rochelle Park, Bergen County, N. J. Owners, State Highway Commission, A. Lee Grover, Trenton, N. J. Concrete I beam, 2 spans, concrete pier and abutments, 30-foot roadway. Owners taking bids due December 5th at 12 noon.

## New Jersey

### Contracts Awarded

**Bungalow**, Woodbury, N. J. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, J. Hause, 714 Belgrade avenue, Philadelphia. Frame, 1½ stories, 26x43 feet, asbestos shingle roof, pine floors, electric light, pipeless heat. Contract awarded H. H. Fox, 75 Chestnut avenue, Woodbury, N. J.

**Store and Apartment**, Brunswick and Myrtle streets, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, J. Wojtkiewicz, care of architect. Brick, 2 stories, 20x40 feet, slag roof, pine floors, steam heat, electric light, tile work, metal ceilings. Contract awarded to H. Ball, 2 Moffatt street, Trenton, N. J.

**Fence**, Moorestown, N. J. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Seymour Johnson, on premises. Brick, stone, limestone, iron fence, 8 feet high, 1000 feet long. Contract awarded George Shaner & Son, Palmyra, N. J.

**Store and Apartment**, Roebling, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, J. Wargo, Roebling, N. J. Brick, 2½ stories, 25x50 feet, slate roof, pine floors, slate roof, electric lighting, tile work. Contract awarded to John Toth, Roebling, N. J.

**Cemetery Building**, Camden, N. J. Architects, B. H. Edwards and A. F. Green, 34 South Seventeenth street, Philadelphia. Owners, City of Camden, C. H. Raymond Staley, City Hall, Camden, N. J. Concrete block and stucco, 1 story and basement, 24x35 feet. Contract awarded Hensgen Brothers, 1146 Mechanic street, Camden, N. J., \$7,457. Heating, H. Hansgen, 322 Erie street, Camden, N. J., \$250. Plumbing, E. J. Riegert Mt. Ephraim avenue, Camden, 710.



## Delaware Construction News

**Residence**, Wawaslit and Scott streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, P. J. Ford, Ford Building, Wilmington, Del. Stone, 2½ stories, 30x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will sub-let.

**Store and Apartment (alts. and add.)**, 602 Union street, Wilmington. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, S. Miller, on premises. Brick, structural steel, concrete, 2 stories, 15x50 feet, tin roof, pine floors, electric light, iron work. Owner taking bids.

## Delaware Contracts Awarded

**Hospital (add.)**, Wilmington, Del. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, Delaware Hospital, care of architect. Brick, steel, fireproof, 1 story, 80x80 feet, composition roof, composition and tile floors, hollow tile (heating reserved), metal lath, metal trim. Contract awarded to Smyth Const. Co., 826 Orange street, Wilmington, Del.

## Miscellaneous Construction News

**Hall of Chemistry**, Morgantown, W. Va. Architect, P. A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, West Virginia University, care of State Board of Control, J. S. Lakin, secretary, Charleston, W. Va. Brick, cut stone, steel, concrete, 4 stories, 305x79 feet, slate roof, composition and cement floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, kalamein doors, waterproofing, dampproofing. Owners taking bids due December 28th, 1923.

**Garage**, South Side Road street, East of South Swan street, Albany, N. Y. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. Stratton Motor Co., Inc., Albany, N. Y. Reinforced concrete and steel, 3 stories, 118x139x95 feet, 6 inches, slag roof, cement floors, elevator, sprinkler system, rolled steel sash, electric work, plumbing, heating and ventilating plant. Revised plans in progress.

**Convent**, location withheld. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Stone, steel, 2½ stories, 60x40 feet, hot water heating, electric lighting, slate roof, plumbing. Plans in progress. Ready for bids in one month.

### Proposal

#### NOTICE TO BIDDERS

Sealed proposals will be received by the Camden County Board of Chosen Freeholders for a group of Buildings for the Camden County Tuberculosis Hospital. Drawings and specifications can be seen and all information had by application to the office of Arnold H. Moses, Architect, Temple Building, Camden, N. J. Bids will be received on Monday, December 17th, 1923, at two o'clock P. M.

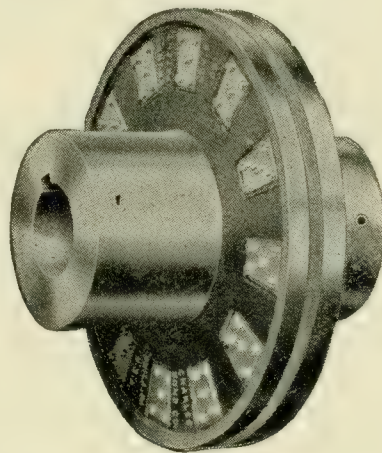
### YOUR EXCHANGE

A Builders' Exchange is much like a bank—if you want to get anything out of it you must first put something in. The trouble is that too few of us open accounts. In most exchanges about ten per cent. of the members do 90 per cent. of the work. A greater interest on the part of members would usually be more important than receiving additional members.

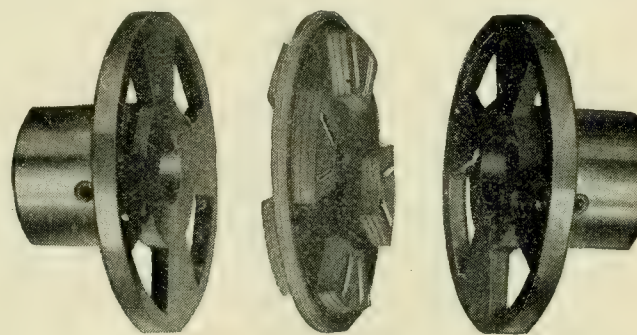
We members forget that it is OUR exchange. We are inclined to think of it as belonging to the officers. We lost sight of the fact that it is we members who make up the exchange and that the officers are only our leaders whom we have chosen. The success of a Builders' Exchange rests no more with the president and secretary than it does with the individuals who make it up.

Absentee members is one of the things that make it difficult for a president and secretary to sustain interest in a Builders' Exchange. If the members would get into the habit of dropping into meetings and of occasionally visiting exchange headquarters their investment would pay larger dividends and their organization would be in much better condition to combat the tendencies toward dissolution.

The Grundy Patent Flexible Insulated Coupling illustrated herewith, is designed for the transmission of power from one shaft to another, where electrical insulation and a moderate degree of flexibility are desired.



The two outside flanges can be either keyseated or setscrewed to the ends of the shaft. The central disc is made of special selected leather, and has lugs se-



curely cemented and riveted to each side. The disc supplies the insulation, and the

lugs transmit the power to the outside flanges.

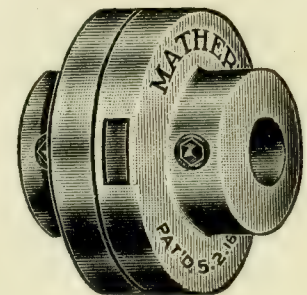
The manufacturers, Charles Bond Company, 617-619 Arch Street, Philadelphia, claim that this Coupling will transmit more power than any other flexible coupling of equal diameter, and that it will sustain uneven strains. Where it is not possible to secure perfect alignment of shafts, the "GRUNDY" will adjust itself to any such inequalities.

Grundy Couplings are made in all sizes, from 3" to 30" both inclusive. They can be run in either direction, and at high or low speeds.

Many Grundy Couplings have been sold for Wood Working Machinery installations, Cotton Spinning Plants, to Pump Manufacturers, and a variety of other types of industry.

Write to Charles Bond Company for a copy of their latest Booklet "F," and they will furnish names of satisfied users to whom you may write regarding the merits of their Coupling.

They offer to send to any well rated concern, a Coupling for testing purposes, and if not entirely satisfactory, it may be returned to the manufacturers at their own expense for full credit.



The Mather Flexible Coupling is recommended for light loads and fractional horse power drives.

### NOTICE OF MEETING

At the request of Mr. F. W. Walker, Chairman, a meeting of the American Construction Council's Committee on Apprenticeship, Vocational Guidance and Craftsmanship has been called for December 5th at Buffalo, N. Y., at ten o'clock in the morning.

This Committee of the Council was created by resolution of the Executive Committee last August, which action was ratified by the Board of Governors of the Council at its meeting on September 21st at which time a resolution on a national apprenticeship program on the part of the Council was adopted as follows:

#### Apprenticeship

"With the desire of furthering a sound and adequate program on apprentice



training for the construction industry and of co-operating in every way possible with the present bodies who are directing their efforts in this field, and who are or in the future may be, inaugurating and conducting agencies for such training, the Board of Governors of the American Construction Council hereby requests the officers of the Council operating especially through its Committee on Apprenticeship, Vocational Guidance, and Craftsmanship, to co-operate with employees' and employers' organizations, building congresses, and all other elements in the construction industry, and with the educational bodies, local and national, in providing for apprenticeship which will be attractive to young men and will afford the fullest means for the employment and training of efficient workers as apprentices, and will produce the skilled workmen needed in the construction industry; and the Board further authorizes as the first essential step in this program the making of a national survey on apprenticeship needs and conditions of labor supply throughout the construction industry through the appropriate agencies of the Council co-operating with all organizations within the industry."

Announcement of the general personnel of the Committee was made in recent issue of the GUIDE, stating also that a meeting of the Committee as a whole would be called shortly.

In addition to the foregoing, a national program on apprenticeship for the construction industry was referred for action to the American Construction Council on November 15th by vote of a conference of all elements of the construction industry called by the Federal Board for Vocational Education.

The American Construction Council thus has an obligation of first magnitude to the construction industry and to the public on the matter of apprenticeship. This meeting of its Committee in Buffalo on December 5th is the first meeting of the Committee as a whole and its importance requires no comment.

## SEASONAL CONSTRUCTION SUBJECT OF CONFERENCE

*Committee Appointed by Secretary Hoover Not Yet Ready to Make Recommendations*

The Committee on Seasonal Operation in the Construction Industries, appointed by Herbert Hoover, chairman of the President's Conference on Unemployment, met on Tuesday, November 13, in the Department of Commerce to discuss the possibility of shortening the dull

seasons which have been found characteristic of construction activities.

The members of the committee are:

Ernest T. Trigg, manufacturer of Philadelphia Pa., chairman; John W. Blodgett, manufacturer, of Grand Rapids, Mich.; John Donlin, president, Building Trades Department, American Federation of Labor, Washington, D. C.; L. F. Eppich, president, National Association of Real Estate Boards, Denver, Colo.; A. P. Greensfelder, contractor, St. Louis, Mo.; John M. Gries, Department of Commerce, Washington, D. C.; Otto T. Mallery, public works expert, of Philadelphia, Pa.; Rudolph P. Miller, engineer, of New York, James P. Noonan, president, Brotherhood of Electrical Workers, Washington, D. C.; William Stanley Parker, architect, of Boston, Mass., and Edward Eyre Hunt Secretary.

While the committee is not yet ready to present its recommendations, it was stated that the discussion included the following factors, which were treated in a progress report of the survey being conducted for the committee under the direction of the Division of Building and Housing of the Department of Commerce: Periods of greatest and least employment for workers in the different building trades, the seasonal work of architects in the office and in the field, seasonal activity of contractors' organizations and equipment, seasonal activity of building material producing industries, some of which have climatic limitations of their own and most of which are forced to irregular production by the demands of construction, the seasonal problems of building supply dealers, the seasonal movement of building materials in relation to railroad transportation, the effects of seasonal construction on public utilities such as gas, electric, telephone and water companies.

The BUILDERS' GUIDE is in its thirty-eighth year of continuous publication.

## DANGER IN SEPARATE CONTRACTS

*(Continued from last week)*

*Policy Proposed by Mechanical Trades Would Undermine Construction Work, Study Made by Associated General Contractors Shows*

For example, representatives of the mechanical trades attempted in 1914 to secure passage of a bill (H. R. 14288 of the 63rd Congress, 2nd session) requiring that all mechanical installations

amounting to more than \$1,000 be handled by separate contract. The bill was assigned to a special committee and reported to the Committee on Public Buildings and Grounds before the general contracting industry was aware of the procedure. The merits of that bill may be judged by the ease with which it was killed through presentation to the committee of a short analysis of the issues involved.

Some of the individuals, apparently working hardest in favor of the bill, were not interested in government work, and the conclusion naturally reached by the general construction industry was that they merely sought to establish a Federal precedent. From this precedent it would have been possible to work through state and municipal departments and eventually into private construction.

In the case of state legislatures, the mechanical trades have been more successful. A number of state and municipal departments are required to award separate contracts for their work. But these measures have obviously been put across by organized minorities representing subcontractors at a time when no adequate organization for presentation of the opposing side existed. In the very method of approach to the subject, by way of lobbying and legislative enactment, these trades have revealed the selfishness of their aims and the sinister character of their actions. The issue at hand is not a matter that should be manipulated by the enactment of laws or even regulations, but is a subject capable of settlement by analysis in the light of existing conditions.

At a time when industry in general is airing its grievances in the open and settling its problems at the conference table where every interest has a voice, the mechanical trades again attempt to avoid a frank discussion and establish an unsound business policy by means of the Interdepartmental Board.

In substantiation of their request for a separate contract policy, they have cited a recommendation of the American Institute of Architects, made in 1913, endorsing the plan; yet it is well known that such a recommendation could not be put through the Institute at the present time. In the opinions expressed by the architects at that time is believed to be the only sound argument for the policy, namely, that it gives the architect a voice in the selection of responsible contractors for the mechanical trades, thus insuring a better quality of work, but at the present time the standard contract of the Institute reserves this right to the architect and makes the separate contract unnecessary for this purpose.

*Not Recommended*

With the exception of certain architec-



tural firms whose opinions are quite generally known and some of whom were invited to give an expression for the brief of the mechanical trades, the great body of architects of the country do not recommend the separate contract system at present as a fixed policy.

Within the past few weeks the South Carolina Chapter of the American Institute of Architects passed a recommendation on this subject. Following the report of a committee that had attended a discussion of contracts at the South Carolina Builders' Exchange in Columbia they recommended:

"That the question of separate contracts or a general contract with sub-contracts be considered and determined for each case as the circumstances may indicate."

The question of separate contracts has long been an issue between general contractors and various architects. It is doubtless true that in dealing with an inexperienced or irresponsible contractor the designer's path is easier when he has a direct contract with the mechanical trades; in fact, he might preferably assume the entire management rather than work with an incompetent or irresponsible company; but to ignore the most fundamental principles of management by introducing the breach of separate contracts and to establish them as a policy is an ill-advised means of remedying existing difficulties, especially when the architect and owner have within their power a real remedy in the selection of a responsible contractor. They have layed themselves open to the same charge that the sub-contractor brings against the general contractor, namely, that he shops for bids and awards too often on a basis of price alone—a procedure that none of them would follow in purchasing a pair of shoes.

In their brief to the Interdepartmental Board the mechanical trades have quoted replies from a number of architects, evidently telegraphic communications, to substantiate their claims. The following is an example:

"Separate bids save money, produce higher grade work."

By what magic this money is saved and the work improved is difficult to imagine; but, in view of the thousands of projects completed satisfactorily each year under the general contract system, a system that has developed in accordance with business needs, the opinion of a few individual professional men should not be given undue weight.

With respect to the statement of costs made by these architects, only one reply can be made. The professional man's cost data is non-existent. He has no true means of comparing the cost of like structures under the two different plans of awarding, and, in fact, has generally

been glaringly uniformed upon the subject. His estimates are usually based on cubical content or floor area which is extremely inaccurate, and his idea of cost is usually derived principally from the bids received. Such generalities indicate the absence of information on actual construction cost that has repeatedly made a failure of the professional man who attempted to manage construction on any basis except cost-plus, fee or percentage. The designer's opinion on cost is usually about as valuable as the contractor's opinion on design, and the opinion of neither one in the other's field should be unduly weighted.

In justice to the mechanical trades it should be stated that they have frequently contended with trade abuses on the part of general contractors and it is but natural that they should desire to deal directly with an owner; but it should also be stated that these abuses are the same that have been perpetrated by client owners and their professional representatives against the general contractor.

Foremost among these degressions is the matter of progress payments, concerning which the sub-contractor resents non-payment of his work until the owner has paid the contractor. Possibly this resentment is justified, but under the separate contract system the mechanical contractor can but change the object of his resentment, from the contractor to the owner or his professional representatives.

Nothing is to be gained by handling this matter of payments with kid gloves. It has been abused by every element involved in the industry, and especially by public bodies. Of the principal transgressors concerned, which are private owners, states, municipalities, the Federal Government, engineers, architects, and contractors, the last-named can by no means be cited as the worst offenders.

Engineers and architects have frequently withheld great sums of money from the contractor for the most trifling causes. Private owners have withheld similar amounts and used the money in their business when interest rates were high. As for public bodies, especially numerous state highway departments and the Federal Government, they seem to have considered payment for the work as the least of their obligations. These circumstances have reacted not only to the injury of the general contractor, but also to contractors in the mechanical trades. The latter as well as the former have had their business disrupted by these abuses of payment, but the situation cannot be corrected by a mere juggling of contracts. The sub-contractor in dealing direct with the owner will merely be in the same predicament as that confronting the general contractor.

It is obviously true that by dealing

direct the sub-contractor would escape any abuse of payment that is wilfully practiced by irresponsible general contractors, but the number of cases of this nature in comparison with the remainder are comparatively small. Assuming, however, that the sub-contractor has a great and just grievance against the general contractor, as alleged, and that the separate contract would benefit him personally, there is yet to be considered the interests of owners, municipalities, states and the Government.

That a governmental body should lend itself to the benefiting of a special group if such action reacts against the interest of the Government, is undoubtedly contrary to the accepted principle of public trust. There can be little doubt that the tearing down of centralized management and responsibility, a system that has demonstrated its efficiency in every line of industry, will react otherwise than disadvantageously to the Government.

It may be that certain trade practices of general contractors are in need of correction as most certainly are those of owners, professional men and public bodies. When the general contractor calls for sub-bids and receives an identical quotation from many different companies, he certainly feels that sub-contract practices in certain trades need correction. But in any event the proper procedure is not through means of legislation that disrupts a sound established system, or by a federal ruling that may be cited as precedent for promoting the interest of a single trade group.

The true equities in this issue of the separate contract policy are not those of the general contractor or the sub-contractor but are those of their thousands of clients, both public and private, who employ construction service. Those clients during the past four years have paid for their projects and it is most essential that no ruling or laws be enacted which will further increase construction cost.

If any trade group is indulging in unfair trade practices a cure better than legislation is a thorough public airing and the establishment of sound practices by means of the conference table. Such an airing and such a conference would undoubtedly receive the support of the great body of general contractors throughout the country. Such a course is infinitely more productive of good than the constant effort of certain trade groups to steal a march by unsound legislation or departmental rulings.

On the grounds that the mechanical trades have been unable to show whereby either the Government or private owners of construction will be benefited by adopting the policy of separate contracts, petition is herewith made to the Interdepartmental Board of Contracts and Adjustment that this policy be rejected.



# Reference Directory for Architects, Builders and Owners

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## LINOLEUM.

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## LINOTILE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

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Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 49  
December 5, 1923

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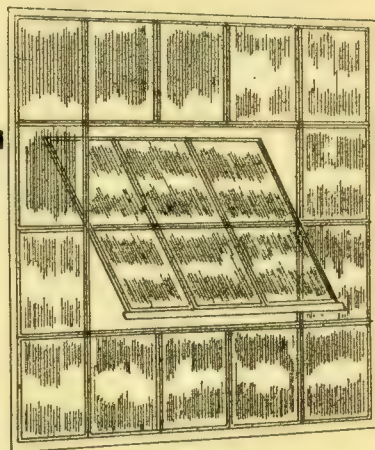
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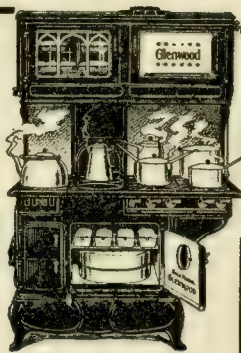


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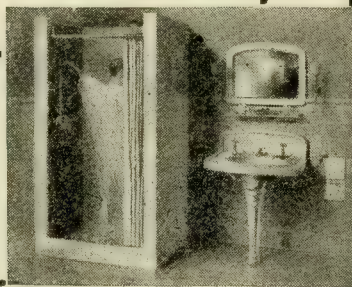


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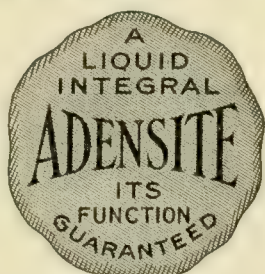
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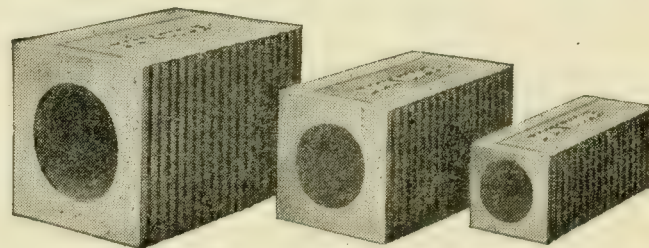
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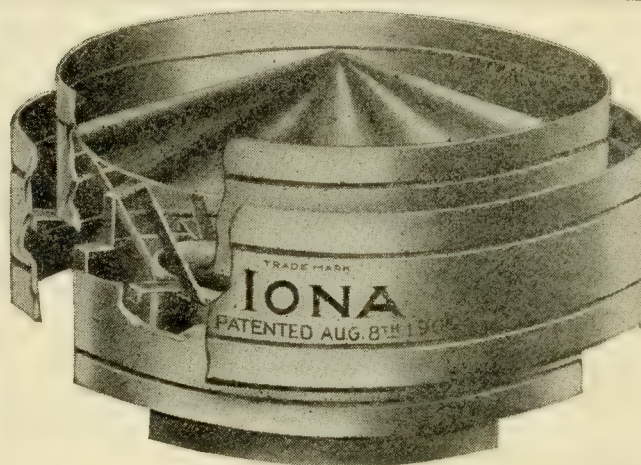
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 49

PHILADELPHIA  
December 5, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### FORECASTING

Prognosis fills the atmosphere at present even as heretofore. For the last year or two the skeleton in the closet has had multigenerous tremors so violent some prophets would have us believe that its complete disintegration was inevitable. And yet we have not heard a crash, not even a slight thud, which leads us to suspect that the old skeleton is pretty well articulated after all and may be the rattling only indicates that he is busy. What are the business conditions of the country? How profitably employed is labor? And of particular importance to us, how stable are building conditions and what is the outlook for 1924?

#### General Business

The state of general business is that of normally sustained activity rather than that of boom conditions and that is a very healthy condition. Trade is distinctly not reactionary though fluctuating and noticeably cautious on commitments. The public buying power is well sustained. Grain and cotton prices have risen through October, and though there was a decline from early spring prices, the reaction through the summer saw prices return on the average to barely 7 per cent. below the year's high point. Steel production is heavier than anticipated at this time of year and prices are holding, with every indication of stability, despite the summer predictions for a slump this fall. New orders are at present nearly

sufficient to maintain production at an even level and shipments against old orders are heavy, which would indicate that demand was good and consumers not overstocked. At present the United States Steel Corporation is said to be running at about 85 per cent. capacity and independents differently figured are not far behind.

The current issue of the *Guaranty Survey*, issued by the Guaranty Trust Company, offers the following outlook:

"The present scale of business activity is high as compared with any but peak standards. A resumption of the abnormal production and rapidly rising commodity prices, which were the outstanding features of the spring boom, is not a prerequisite of continued prosperity.

"Financial conditions remain highly favorable. The banks have met the peak of the seasonal credit demand with ease. Any rise in money rates of a magnitude sufficient to constitute a restraining influence is highly improbable. Failures have been surprisingly few. The number of insolvencies reported for September was the lowest monthly total in nearly three years.

"Meanwhile, the country's stock of gold continues to increase, and the merchandise export balance for September is indicative of the conditions which make probable a further accumulation of the metal.

"Freight car loadings have reached new

high levels. This extraordinary volume of railway traffic reflects not only the seasonal movement of crops but the heavy production and purchasing of goods earlier in the year. Moreover, the sustained volume of shipments indicates that the trade recession in recent months has not been so great as was suggested by the more pessimistic interpretations of current developments. It is to be noted, further, that grain shipments recently have not equalled the movement in corresponding weeks last year, while the shipments of other commodities have exceeded last year's records. The present withholding of wheat from the market will result in a larger grain movement later than would ordinarily be expected.

"The steel industry reflects, perhaps as clearly as any other, recent irregularities in business trends. Production as in most lines of manufacturing, has declined from the peak reached earlier in the year. Prices of steel on the whole, however, have remained practically unchanged since April. A waiting attitude on the part of buyers is pronounced. Meanwhile, consumption continues at a high rate."

The country has in the early months of this year seen great business activity—in fact, boom conditions—and records have been set. To quote an address delivered in August by Julius H. Barnes, President of the Chamber of Commerce of the United States, ten production records have been set:

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 "The largest volume of retail sales;  
 "The largest volume of railroad car loadings."

It is much more healthful to have sustained good business than roller coaster conditions which produce peak records and corresponding despairing depths. For a survey of the conditions over the country as a whole, the current maps in the "National's Business" are most illuminating. Divided in three categories: white, good crops, industrial activity and buying markets; black, the reverse; shaded, medium business; they tell a story of prosperity. In the areas of greatest population where more than 75 per cent. of the people live, business is good. The black areas are confined to regions west of the Mississippi of relatively small compass and about 1 per cent. of the population. The shaded portion of medium business is about half in area but not a quarter in population. The indication is that of prosperity now and to come and for comparison the map of a year ago was shaded well all over with ominous black spots appearing even in the areas of large population.

#### Volume of Building

With general business conditions through the year, building has kept pace driven by urgent demand to make up for shortage and maintain the current supply. Prediction for 1923 set a six-billion figure which was clearly over optimistic, but the restraining factor was not lack of demand but incapacity to produce. Early in the year there was a great rush to build, housing being predominant with large amounts of money available for building loans which encouraged speculative building. Building permits were issued in great volume and the rush of work rapidly absorbed the available material supply and output holding prices at a high level, and the demand for labor was so great that wages were bid up by the offer of bonuses. Reaction was inevitable, taking the form of curtailment in non-speculative building, and the late spring and summer saw a falling off in permits which did not affect either the prices of material or the bonuses on labor because of the demands of the large amount of construction already under way. August showed an upward tendency in building permits and September closely approximates the monthly average of the last

year and a half. The gain for 1923 over 1922 for nine months is 24 per cent., reporting the activities in 152 cities. In 36 Eastern States for the same period the volume in the two years is about equal.

#### Material Prices

At present there is considerable stability in building material prices, with a slight seasonal softening in prices which will probably not endure beyond the first of the year. The current Dow Service Daily Building Reports show that since spring high levels thirteen basic building materials have gone off 11.5 per cent. Of interest also is the table in the last *Labor Review*, published by the United States Department of Labor, which shows the value of the dollar in the purchase of building materials over a ten-year period with 1913 as the standard of comparison.

1913	.....\$1.00	1919	.....\$ .51
1914	..... 1.08	1920	..... .38
1915	..... 1.07	1921	..... .60
1916	..... .83	1922	..... .59
1917	..... .64	1923	..... .51
1918	..... .58		

#### Labor

The building trades now command high wages—the highest in history—which will probably remain stable. The bonus system is a parasitic growth which will cease to be a factor. It cannot exist under normal conditions of employment. The trades at the recent convention were foresighted as to the continuation of construction and more attention than ever before was given to the need of new blood in the trades and provision for apprentices. This activity is country-wide—New York and San Francisco are training "white-collar" men for trades and finding jobs for the men after short intensive training. Carnegie Institute of Technology, in Pittsburgh, has 1,200 night students enrolled for the present year in the College of Industries, 50 per cent. signed to take courses in the building trades. A striking example of the growing interest that labor unions are showing in educational facilities for their respective apprentices was revealed in the recent action of the Pittsburgh International Wood, Wire and Sheet Metal Lathers Union which, on its own initiative, has effected a working agreement with Carnegie Institute to train apprentices of this trade. Apprentices are compelled by the union to attend a special night course three nights a week for two years.

The Apprenticeship Commission of the New York Building Congress outlines its program.

1. Inducing a sufficient number of capable young men to enter the building trades.

2. Encouraging employers to employ their quota of apprentices.

(Continued on page 781)

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**Private Hospital (Ear, Nose and Throat),** Thirty-third and Diamond streets, Philadelphia. Architect, William L. Charr, 149 South Fourth street, Philadelphia. Owner, care of architect. Fireproof, steel, brick, concrete, 4 stories, 50x140 feet, slag and concrete roof, metal lath, elevators, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, terra cotta, wire work, iron work and stairs, floor hardener, bond, fire and kalamein doors, hollow metal skylights and sash, tile and marble work, electric light, steam heating. Plans in progress.

**Apartment House,** Delancey and Bouvier streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, name withheld. Brick, steel and terra cotta, 4 stories, 39x80 feet, slag roof, hardwood floors, elevators, Murphy beds, galvanized iron bays, kitchen equipment, fire towers, tile and marble work, electric light, vapor heat. Plans completed. Ready for bids in one week.

**Factory,** Fifth and Hamilton streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Crescent Ink & Color Co., 408 Vine street, Philadelphia. Brick, concrete, steel, 2 stories, irregular in size. Plans in progress.

**Sunday School,** Nineteenth and Porter streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia, Pa. Owners, Mt. Herman Methodist Episcopal Church, Rev. F. C. Thomas, on premises. Stone and brick, 1 story, basement and gallery, 45x60 feet, slate roof, maple and pine floors, electric light, vapor heat. Plans completed. Architect will take bids in one week.

**Store and Apartment,** Saul and Oxford Pike, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, name withheld. Brick, steel, 4 stories, irregular size, vapor heat, electric, tile work, fire towers, kitchen equipment, Murphy beds, pine floors, slag roof. Plans in progress.

**New Store (alts.),** 1521 Germantown avenue, Philadelphia. Architect, private plans. Owner, Joseph Schorr, 1547 Germantown avenue, Philadelphia. General alterations, hot water heat, electric light, marble work, plumbing, painting and glazing, flush bulks. Re-

vised plans in progress. Owner will be ready for general bids in a few days.

**Garages,** Germantown, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 1 story, 20x110 feet, slag roof, cement floors. Plans in progress.

**Factory (alt.),** Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. New office partitions, mill work, glazing. Plans in progress.

**Residences (twin),** Lamott, Pa. Architects, Neely & Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 18 feet, 6 inches x 24 feet each, pipeless heat, electric light, pine floors, shingle roof. Architect ready for sub-bids.

**Repair Shop, Residences (2), Garages (12),** Unruh and Tulip streets, Frankford, Philadelphia. Architect, K. F. Otto, 1828 Arch street, Philadelphia. Owner, Tony Olivieri, 1578 Adams street, Philadelphia. Brick, 1 story, 25x80 feet, 2 stories, 19x39 feet, 16x39 feet, 1 story, 8x15 feet, slag roof, hardwood, pine and cement floors, hot water heat, electric light. Owner will be ready for sub-bids in a few days.

**Individual Garages (32),** Ninetieth and Elmwood avenue, Philadelphia. Architects, Durham Brothers, 1609 Sansom street, Philadelphia. Owner, Alfred Furnival, 2700 South Seventieth street, Philadelphia. Brick, 1 story, 8x16 feet, slag roof, concrete floors, electric light, steam heat. Owner will build.

**Stores, Office Building, Apartments, (13) Garages,** Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 2 stories, 32x60 feet, 1 story, 18x120 feet, slag roof, hardwood and cement floors, vapor heat, electric light. Architect will be ready for sub-bids in a few days.

**Synagogue,** Northwest Corner Forty-fourth and Viola streets, Philadelphia, \$75,000. Architect, private plans. Owners, Tikvath Israel Congregation, Jacob Karr, 4040 Parkside avenue, Philadelphia. Stone and brick, 2 stories, 58x15 feet, steam heat, electric light, slag roof, maple floors. Owner will build.

**Police and Fire Station,** Rising Sun and Bermer street, Philadelphia. Architects, Hew-

itt & Ash, 1827 Arch street, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, Bureau of Fire and Police, City Hall, Philadelphia. Brick, terra cotta, steel, reinforced concrete, cut stone, 2 stories, 86x55 feet (plumbing, heating, electric reserved), metal lath, tile work, bond, iron work, waterproofing, marbeloid, cement, pine floors, tin roof. Owners taking bids due December 10th.

**Church,** Thirteenth and Ruscomb streets, Philadelphia. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Muhlenberg Memorial Evangelical Lutheran Church, Rev. C. P. Swank, 4922 Camac street, Philadelphia. Stone, 1½ stories, 90x53 feet, slate roof, oak floors (heating, electric, plumbing reserved), tile work, iron work. Architects taking bids due December 15th.

**School,** Merion and Girard avenues, Philadelphia. Architect, I. H. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, steel, 2 stories and basement, 37x171 feet (2 wings), 49x110 feet (plumbing, heating, electric reserved), slag roof, maple and pine floors. Owner taking bids due December 6th.

**Church Building,** Third and Tabor Road, Philadelphia. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owners, Olney Presbyterian Church, Rev. W. H. Wells, 1237 West Tabor Road, Philadelphia. Stone, brick and steel. Architect is taking bids due as soon as possible.

**Paint Shop (add.),** 5438 Ella street, Philadelphia. Architect, private plans. Owner, Peter Hentz, on premises. Brick, steel, concrete, 1 story, 40x50 feet, slag roof, cement floors, heating and electric extension, rolled steel sash. Owner taking bids due as soon as possible.

**South Second Street, Market, Pine to Lombard Streets,** Philadelphia. Contracts 1, 2, 3. City Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall, Philadelphia. General construction, plumbing, drainage, gas fitting, electric light, bond.

**Independence Hall Group,** standpipe system of fire protection. Deposit, \$5.00. Owner taking bids due December 11th at noon.

**Fire House,** No. 28, Belgrade and Clearfield streets, Philadelphia. General alterations. Owner taking bids due December 12th at noon. Plans may be secured Room 117. Deposit, \$5.00 each.

**Miscellaneous Work,** Philadelphia, Pa. Owners, Board of Education, Nineteenth and Chestnut streets, Philadelphia. Vane Junior High, installation of ozone apparatus. Taggart No. 1, sanitary improvements, including plumbing and heating. William Penn High School, exhaust fan in lunch room. Various schools, electric work. Various schools, wood platforms. Various schools, general repairs,

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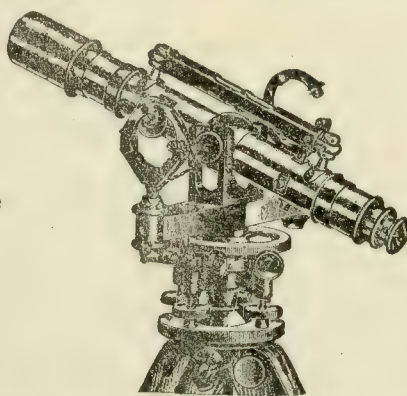
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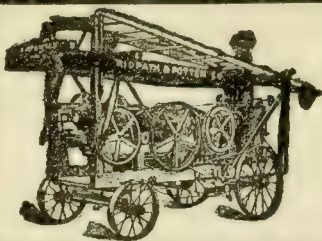
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etc. 5441 Vine street, demolition and paving. Owner taking bids due December 6th at noon.

**Residences (16)**, North side Nedro avenue, East of Third street, \$81,000. Architect, private plans. Owner, Herman Rottman, 264 West Mentor street, Philadelphia. Brick, 2 stories, 18x37 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Shop (add.)**, East side Thirtieth street, North of Race street, \$9,000. Architect, private plans. Owner, Edward H. Reuss, Jr., on premises. Iron, 1 story, 40x40 feet, 100x96 feet, asbestos roof. Owner will build.

**Residences (26)**, North side Rittenhouse street, Ardleigh to Anderson street, \$6,000 each. Owner, John H. Oler, 5116 Market street, Philadelphia. Brick, 2 stories, 18x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence**, North side Chancellor street, East of Large, \$6,000. Architect, private plans. Owner, Samuel L. Prince, 1503 Foulkrod street, Philadelphia. Hollow tile, 2 stories, 22x33 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Garage**, West side Torresdale avenue, South of Orthodox, \$2,000. Architect, private plans. Owner, C. Lakowicz, 4655 Torresdale avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Owners will build.

**Window Cleaning**, Independence Hall Group, Philadelphia. Cleaning all windows in Independence Hall Group for year 1924. Bids due December 11th, Room 117, City Hall.

**Hotel and Office Building**, Northwest Corner Broad and Locust streets, Philadelphia, \$10,000,000. Architect, H. E. Kennedy, 1324 Walnut street, Philadelphia. Owners, Middle City Realty Corp., L. H. Cahan, president, Juniper and Walnut streets, Philadelphia. Stone, brick, steel, 40 stories, 86x116 feet, steam heat, electric light, tile and marble work, metal lath, hollow tile, elevators. Plans in progress. Architect ready for bids in 60 days.

**Store and Garage (add. and alt.)**, 1700 South Eighth street, Philadelphia. Architect, M. Capobianco, 721 Walnut street, Philadelphia. Owner, H. Silverstein, on premises.

Brick, 16x16 feet, 1 story, slag roof, cement floors, general alterations, flush bulks. Plans in progress. Owner will take bids.

**Cynwyd Central Office Building**, Northeast Corner Levering Mill Road and Bentley avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, 2 stories and basement, 85x84 feet, slag roof, cement floors, hollow tile, bond, hollow metal sash, tile and marble work, metal lath, steam heat, electric lighting, cork composition floors, tiles. Architect taking bids due December 10th.

**Store Front**, 44 South Broad street, Philadelphia. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. New store front, exterior alterations. Architect taking bids due as soon as possible.

**Residence**, Southwest Corner Rubican and Shedaker streets, Philadelphia, \$5,500. Architect, private plans. Owner, H. E. Cassel, 4640 Stenton avenue, Philadelphia. Brick, 2 stories, 17x14 feet, 13x8 feet and 16x9 feet, hardwood and pine floors, hot water heating, electric lighting. Owner will build.

**James Blaine Public School**, Thirtieth and Norris streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Reinforced concrete, brick work, waterproofing, iron work, composition roof, carpentry and mill work, hardware (plumbing, heating, electric separate bids), bond. Owners taking bids due December 6th.

**Isaac Shepherd School**, Howard and Cambria streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick work, carpentry and mill work, hardware (plumbing, heating, electric separate bids), bond. Owner taking bids due December 6th.

**Whittier Playground**, Twenty-seventh and Clearfield, Philadelphia. Architect, private plans. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Excavation, grading, cement work, sodding. Owners taking bids due December 12th at noon.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Church**, Broad and Fitzwater streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, East Calvary Methodist Episcopal Church, care of architect. Brick, stone, concrete and steel, granite and limestone, 1 story and basement and balcony, 96x120 feet, slag roof, cement, composition, maple floors, hollow tile waterproofing, metal lath, tile and marble work, sheet metal and hollow metal sash, kalamein doors, bond, floor hardener, iron stairs, ornamental iron work. Contract awarded Robert E. Lamb, 845 North Nineteenth street, Philadelphia.

**Alterations and Garage**, Northeast Corner Thirteenth and Christian streets, Philadelphia. Architect, M. Capobianco, 731 Walnut street, Philadelphia. Owner, H. R. Nolte, 827 North Thirteenth street, Philadelphia. Garage, brick and rough cast stone, 1 story, 14x18 feet, electric light, carpentry and mill work, plastering, painting and glazing. Contract awarded to F. Facicanti, 8818 South Thirteenth street, Philadelphia.

**New Bath Rooms** on fourth, fifth, sixth, seventh floors, Northwest Corner Broad and Walnut streets. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Own-



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ers, Manufacturers' Club, Broad and Walnut streets, Philadelphia. Carpentry and mill work, hollow tile, electric lighting, painting and glazing, plastering, tile and marble work, oak floors. Contract awarded F. M. Harris & Co., 1520 Parrish street, Philadelphia.

**Parish House**, Hancock and Diamond streets, Philadelphia. Architects, Frank Watson, G. F. Edkins, W. H. Thompson, 1211 Walnut street. Owners, St. Boniface's Church, J. M. Beirerschmidt, C. S. R., on premises. Brick, stone, steel, reinforced concrete, 2½ stories, 73x139 feet, steam heat, electric light, marble work, rolled steel sash, hollow metal doors, bond, dampproofing, slate roof, cement work. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

**Garage**, Fiftieth and Warrington avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Crean Brothers, care of Mr. Grant, Eighteenth and Oregon avenue, Philadelphia. Brick, electric light, steam heat, cement floors, cold water painting. Contract awarded W. G. Uhler & Son, Twenty-fifth and Snyder avenue, Philadelphia.

**Foot Bridge** on line with Prospect avenue, South of Elkins Park Station, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Structural steel, reinforced concrete, 86 feet long, 11 feet wide. Contract awarded superstructure and sub-structure, Fish, Bower, Rutherford, Real Estate Trust Building, Philadelphia. Iron work, Belmont Iron Works, Twenty-second and Washington avenue, Philadelphia.

**Garage**, 2749 Fairhill street, Philadelphia. Engineers, Lehigh Engr. Const. Co., Sixth below Lehigh avenue, Philadelphia. Owners, Crescent Tea Co., 2731 North Sixth street, Philadelphia. Brick, 1 story, 28x71 feet, slag roof, cement floors. Contract awarded C. Coruti & Caruso, 1835 Orthodox street, Philadelphia.

**Stores (3)**, Forty-ninth and Baltimore avenue, Philadelphia. Architect, private plans. Owner, H. Boone, on premises. Brick, 1 story, 38x56 feet, slag roof, pine floors, electric light, gas radiation heat, hollow metal skylights, wood bulks, metal ceilings. Contract awarded J. Maurer & Co., 1304 North Second street, Philadelphia.

**Boiler House (alts.)**, Southeast Corner Thirtieth and Race streets, \$9,500. Architect, private plans. Owners, Vogt & Sons, on premises. Brick and steel, 2 stories, 80x33 feet, slag roof, cement floor, hollow tile, rolled steel sash, cook insulator dampproofing. Contract awarded to Specialty Eng. Co., Allegheny and Trenton avenues.

**Garage**, Northeast Corner Forty-seventh and Brown streets, Philadelphia, \$22,000. Owner, David R. Oswald, on premises. Brick, 1 story, 50x156 feet, slag roof, cement floors.

Contract awarded to I. Farbstein, 917 Ritner street, Philadelphia.

**Apartment (alts.)**, 4653 Hazel avenue, Philadelphia, \$10,000. Architect, C. A. Casner, Temple Building, Camden, N. J. Owner, E. G. Bodine, Villa Nova, Pa. General alterations. Contract awarded to Frank J. Goodwin 4810 Berkley street, Lansdowne, Pa.

**Residences (2)**, South side Gorgas street, West of Gorston, \$8,000 each. Architect, private plans. Owner, William Cowperthwaite, 3633 North Nineteenth street, Philadelphia. Concrete block, 3 stories, 18x34 feet, 2 stories, 11x16 feet, slate roof, oak and pine floors, hot water heat, electric light. Contract awarded to G. S. Smith, 1715 Chestnut street, Philadelphia.

**Manufacturing Building (add.)**, Southeast Corner Rising Sun avenue and Adams Road, Philadelphia, \$8,000. Architect, private plans. Owners, Electric Storage Battery Co., Nineteenth and Allegheny avenue. Brick, 1 story add., 64 feet, 8 inches x 30 feet, 8 inches, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded to William Steel & Sons Co., 219 North Broad street.

**Manufacturing Building**, Southwest Corner Sepviva and Venango streets, \$41,000. Architect, private plans. Owner, Joseph Martheime, on premises. Brick, 2 stories, 80x93 feet, slag roof, steam heat, electric light. Contract awarded to E. Sherrey, 188 West Girard avenue, Philadelphia.

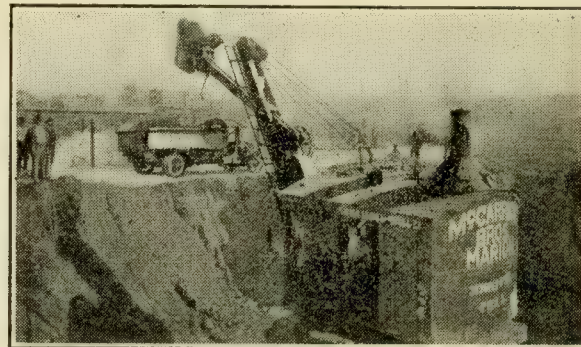
**Coal Bins (5)**, Northeast Corner Thirtieth and Race streets, Philadelphia, \$8,000. Architect, private plans. Owners, Direct Coal Co., on premises. Concrete, 20 feet diameter, 45 feet high. Contract awarded to Neff & Fry, Camden, Ohio.

**Rooming House (add.)**, 1508 Catharine street, Philadelphia, \$10,000. Architect, private plans. Owners, Association for Protection of Colored Men, on premises. Brick, 3 stories, 18x64 feet, slag roof. Contract awarded to Edward Browning, 220 Washington street, Philadelphia.

**Garage**, Southwest Corner American and Sedgley avenue, Philadelphia, \$4,000. Architect, private plans. Owners, Pecora Paint Co., Fourth and Sedgley avenue, Philadelphia. Brick, 1 story, 19x102 feet, slag roof, cement floors. Contract awarded to Paul Brosz, 2511 West Huntingdon street, Philadelphia.

**Residence (add.)**, 5713 Lansdowne avenue, Philadelphia, \$3,300. Architect, private plans. Owner, Edward Flint, on premises. Brick, 2 stories add., 16x20 feet. Contract awarded to John H. Patterson, 6209 Girard avenue.

**Garage and Storage**, 210 Pelham Road, Philadelphia, \$2,700. Architect, private plans.



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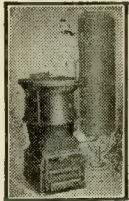
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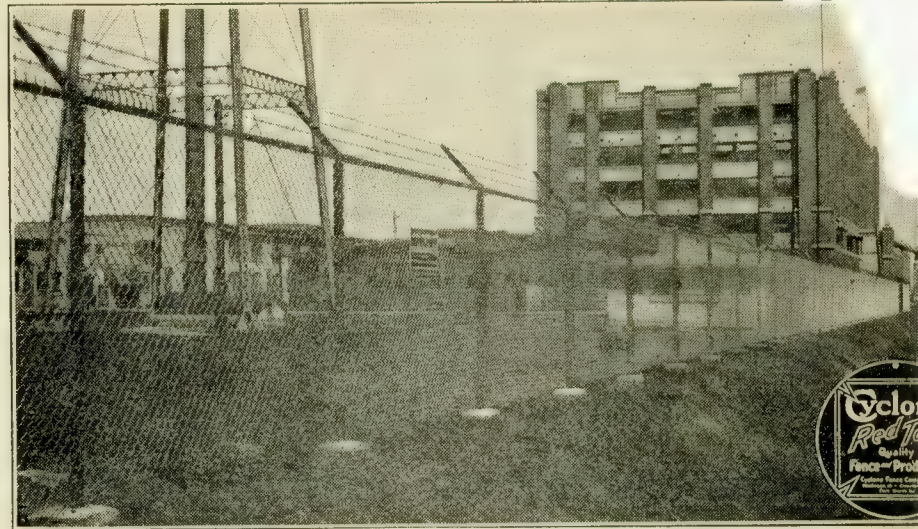
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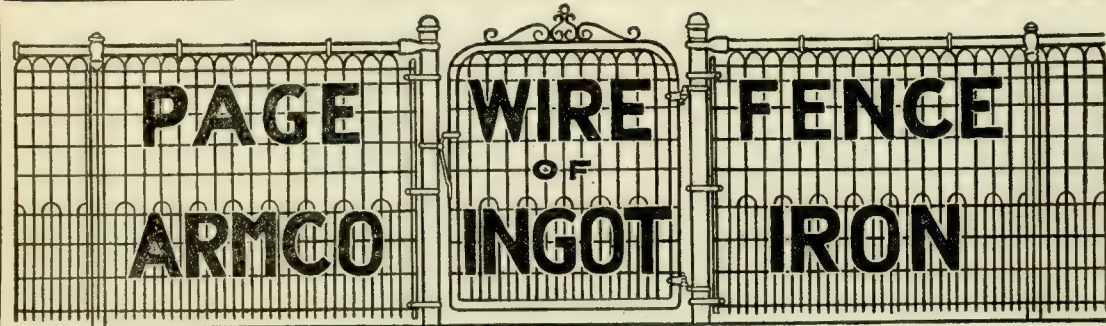
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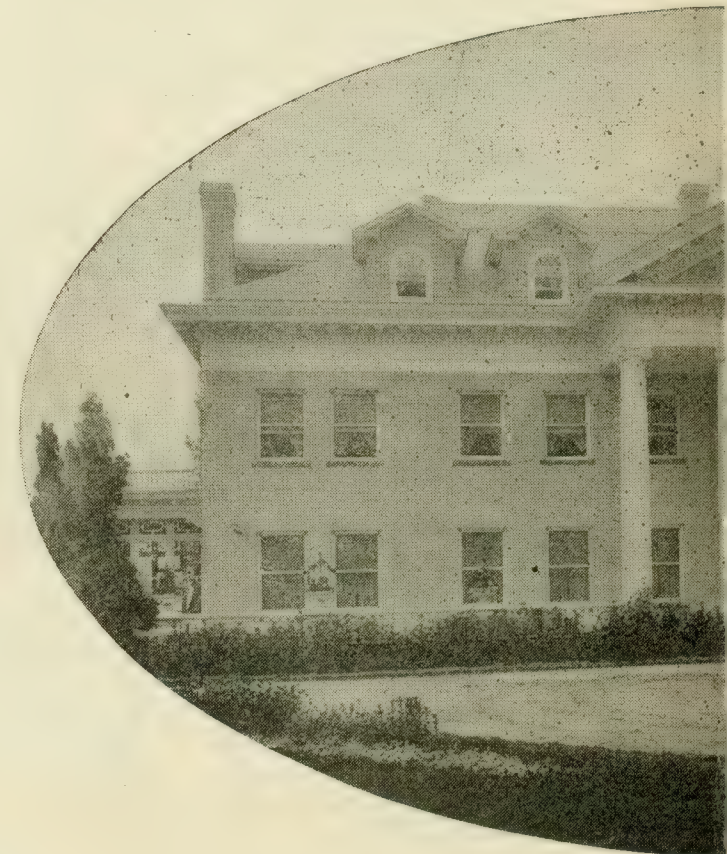
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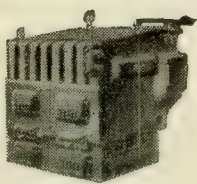
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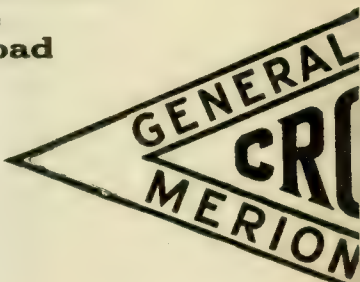
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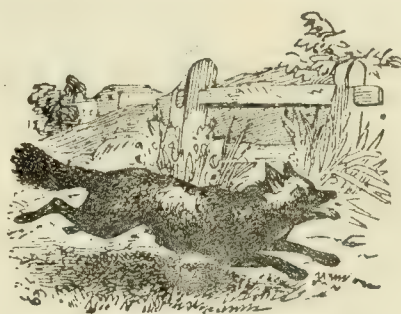
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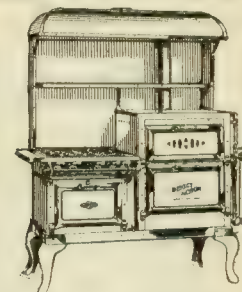
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Owner, William Rometsch, on premises. Stone, 2 stories, 24x24 feet, slate roof, cement floors. Contract awarded to S. Harting & Sons, 20 East Johnson street, Philadelphia.

**Residence (add.)**, 1532 North Eighteenth street, Philadelphia, \$2,500. Architect, private plans. Owner, Mrs. Helen Long Snyder, on premises. Brick, 2 stories, 16 feet, 6 inches x 18 feet, 11 inches, slag roof, electric work. Contract awarded to Joseph Cichiny, 2135 North Howard street.

**Elevator Shaft (alts.)**, 340-44 North Orianna street, \$5,000. Owners, Penn Leather Co., 324 North Third street, Philadelphia. General alterations. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

**Residence and Store (alts.)**, 703 South Second street, Philadelphia, \$2,300. Architect, private plans. Owner, Benjamin Spier, on premises. General alterations. Contract awarded to Nicholas Brandalin, 1412 South Fifteenth street.

**Residence (alts. and add.)**, 929 Ellsworth street, Philadelphia, \$2,500. Architect, private plans. Owner, Mr. Star, on premises. Brick, 3 stories, 13x13 feet, slag roof, general alterations. Contract awarded to Samuel A. Pino, 2327 South Eleventh street, Philadelphia.

**Residence**, North side Brighton street, East of Frontenac, \$4,400. Architect, private plans. Owner, W. G. H. Shultz, Griscom street, Frankford, Philadelphia. Frame and stucco, 1 story, 30x43 feet, shingle roof, hardwood and pine floors, electric lighting. Contract awarded to E. H. Christian, Princeton avenue and Loretta street.

**Garages (2)**, 3675 Emerald street, Philadelphia, \$4,000 total. Architect, private plans.

Owner, Joseph McCourt, 4672 Frankford avenue, Philadelphia. Brick, 1 story, 12½x8½ feet each, slag roof, cement floors. Contract awarded to E. H. Christian, Princeton and Loretta streets.

**Workshop**, 3627 Moravian street, Philadelphia, \$2,400. Architect, private plans. Owner, Edward Herch, on premises. Brick, 2 stories, 16x32 feet, slag roof. Contract awarded to T. J. Brady, 418 East Allegheny avenue.

**Lumber Sheds (2)**, Nineteenth and Cambria streets, Philadelphia, \$5,100 total. Architect, private plans. Owners, Sykes Lumber Co., Nineteenth and Cambria streets, Philadelphia. Frame, 1 story, 18x105 feet, 18x53 feet. Contract awarded to Thomas M. Keeley, 4411 Germantown avenue.

**Residence (add.)**, 804 South Forty-ninth street, Philadelphia, \$2,000. Owner, L. Stein, on premises. Brick, second and third stories add., 15x14 feet. Contract awarded to E. E. Bratton, 416 South Forty-first street, Philadelphia.

**Apartment House (alts.)**, 1327 Spruce street, Philadelphia, \$2,000. Owner, A. Richmond, Fifteenth and Locust streets, Philadelphia. General alterations. Contract awarded to B. F. Virden, 2917 West Fletcher street.

**Memorial Doorway**, Engr. Building, Thirty-fourth and Locust streets, Philadelphia, \$5,000. Architects, Stewartson & Page, 315 South Fifteenth street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick, concrete, cut stone, marble, iron work, hardware, plastering, painting and glazing. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

## Pennsylvania Construction News

**Apartments (6) (alts. and add.)**, Lancaster Pike, Wayne, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Max and Karl Lichtenfeld, Wayne, Pa. Ornamental stone, hardwood floors, hot water heat, electric light, tile work, marble wainscoting, fire doors, fire tower, metal ceilings. Plans in progress.

**Store (alts. and add.)**, West Lancaster avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Karl Lichtenfeld, Berwyn, Pa. Brick, steel, 1 story, 20x45 feet, slag roof, maple floors, heating and lighting extension, hollow metal skylights. Plans in progress.

**Factory**, location withheld. Architect, Charles M. Talley, Telford, Pa. Owner, name withheld. Brick, slow burning, 4 stories, 60x100 feet, steam heat, electric, tile work, slag roof, maple floors, hollow metal sash. Plans completed.

**Sub-Station**, Chester, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware County Electric Co., care of Philadelphia Electric Co., Tenth and Chestnut. Brick. Details undecided. Plans in progress.

**Building (alt. to 7 apartments)**, West Lancaster avenue, Rosemont, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Merion Const. Co., 2315 Walnut street, Philadelphia. General alterations, hot water heat, tile work, shingle roof, hardwood floors, mill work, galvanized iron bay windows, painting and glazing. Owners ready for sub-bids.

**Double Residence and Store**, Buck and County Road, Bryn Mawr, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Louis and Phillip Harris, Bryn Mawr, Pa. Concrete block plastered, 2½ stories, 16x57

## Iron Work That Stands Inspection

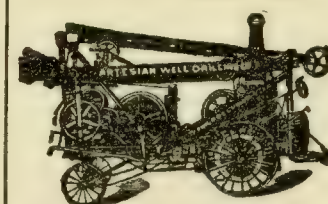
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feet, 6 inches each, tin, asphalt slate shingle roof, pine and cement floors, electric light, hot water heat, metal bulks, metal ceilings. Owners ready for sub-bids.

**Twin Residences and Garage**, North Wales, Pa. Architect, Charles M. Talley, Telford, Pa. Owner, C. W. Patterson, North Wales, Pa. Face brick, 2 stories, 44x32 feet, 1 story, 20x20 feet each, copper, shingle and slag roof, hardwood and cement floors, electric light, hot water heat, tile work. Owner ready for sub-bids.

**Bank**, Sunbury, Pa., \$250,000. Architects, Tilghman Moyer Company, Allentown, Pa. Owners, First National Bank, J. F. Derr, president, Sunbury, Pa. Limestone, brick and structural steel, 1 story, 30x132 feet, Barrett Specification roof, tile, cork, linoleum floors, hollow tile, granite work, waterproofing and dampproofing, vapor vacuum heat, electric light, tile, marble and terrazzo work, rolled steel sash, skylights, bronze doors, bank fixtures, bond, ornamental iron work, ornamental plaster. Architects will build.

## Pennsylvania Contracts Awarded

**Schools (3)**, Bethlehem, Pa. Architects, Ritter & Shay, North American Building, Philadelphia. Owners, City of Bethlehem, Pa.

Rosemont Grade School, brick, reinforced concrete, cut stone, 2 stories and basement, 117x63 feet, steam heat, electric light, metal lath, composition roof, maple floors, tin-clad doors, bond, iron work, roof ventilators. Contract awarded Friel & McLeister, 1615 Spruce street, Philadelphia, \$109,331. Electric, Bethlehem Electric Co., Easton, \$2,177. Plumbing, F. H. Ricker, Easton, Pa., \$5,840. Heating, W. H. Taylor, Easton, Pa., \$11,470.

Edgeboro Grace School, brick, reinforced concrete, cut stone, 2 stories and basement, 162x63 feet, steam heat, electric light, metal lath, tile work, tin clad doors, bond, iron work, roof ventilators, cement and maple floors, composition and slate roof. Contract awarded H. E. Stoudt, Bethlehem, Pa., \$170,000. Electric, Bethlehem Electric Co., Easton, Pa., \$3,882. Plumbing, F. H. Ricker, Easton, Pa., \$7,295.94. Heating, W. H. Taylor, Easton, Pa., \$15,185.

East Fourth Street School, brick, cut stone, reinforced concrete, 2 stories and basement, 162x61 feet, steam heat, electric light, metal lath, tin-clad doors, hollow metal doors, bond,

composition and slate roof, cement and maple floors, roof ventilators. Contract awarded Charles McCaul Co., 1713 Sansom street, Philadelphia, \$130,000. Electric, Bethlehem Electric Co., Easton, Pa., \$3,038. Plumbing, R. J. Hoban, 238 South Van Pelt street, Philadelphia, \$8,000. Heating, Hersh Brothers, 1740 North Thirteenth street, Philadelphia, \$13,362.

**Store and Apartment (2)**, Spring avenue and Simpson Road, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Dominic De Natalie, Ardmore, Pa. Brick and steel, 2 stories, 50x60 feet, built-up composition roof, hardwood floors, hot water heat, electric lighting, tile work, metal ceilings, metal bulks. Contract awarded Louis Spencer, Cricket avenue, Ardmore, Pa.

**Garage and Show Room**, Lancaster avenue, Haverford, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Len Zengel, Haverford, Pa. Brick and steel, 2 stories, 99x132 feet, asbestos built-up roof, reinforced concrete and composition floors, hot water heat, electric, tile, steel rolling doors, metal bulks. Contract awarded to Merion Const. Co., 2313 Walnut street, Philadelphia.

**Decourt House**, Pottsville, Pa. Architect, W. Child Hodgins, 130 South Fifteenth street, Philadelphia. Owner, W. Shugar, 815 West Market street, Pottsville, Pa. Brick, stone, frame and stucco, 3 stories and basement, 35x70 feet. Contract awarded Lewers & Stout, Pottsville, Pa.

## New Jersey Construction News

**Cathedral**, Seventh and Cooper streets, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J., and J. C. Jeffreys, 312 Market street, Camden, N. J. Owners, Scottish Rites Cathedral, A. B. Fortiner, chairman Building Committee, care of architects. Fireproof, steel, brick, Trenton gray stone, Indiana limestone trim, 4 stories, 150x200 feet, tile and hardwood floors, vapor heat, electric light, metal lath, tile and hardwood floors, vapor heat, electric light, metal lath, tile and marble and terrazzo work, roof ventilators, waterproofing and damp-proofing, hollow metal skylights and doors, metal doors, bond, floor hardener, iron stairs, ornamental iron work. Sketches in progress.

**Residence**, Woodbury, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, D. M. Sterner, Woodbury, N. J. Timber, 2½ stories, 18x40 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Plans in progress.

**Hospital (add.)**, Trenton, N. J. Architect,

William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Brick, 1 story, 15x18 feet, tin roof, composition floors, electric light. Plans in progress. Architect will be ready for bids the first of next week.

**Doctors' Cottage**, Municipal Colony, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Brick, 2 stories, 40x26 feet, slate roof, pine floors, vapor heat, electric light, tile work. Plans in progress. Architect will be ready for bids the first of next week.

**Smallpox Hospital**, Municipal Colony, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Frame, 2 stories, 40x100 feet, slate roof, composition floors, steam heat, electric light. Architect will be ready for bids the first of next week.

**Residence**, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owner, Fred G. Hoffman, care of architect. Frame, 2½ stories, 37x26 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress. Architect will be ready for bids in one week.

**Apartment (alts. and add.)**, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City. Owner, J. P. Conway, 208 South New Hampshire avenue, Atlantic City. Brick, new partitions, hardwood floors, plumbing, tile work. Owner will take bids.

**Store and Residence**, Absecon, N. J. Architect, D. A. Rosenstein, Humphreys Building, Atlantic City. Owner, M. Lavell, Absecon, N. J. Frame, 1 story, 26x60 feet, slag roof, pine floors, hot water heat, electric light. Owner taking bids.

**Store Front**, 427 Broadway, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owner, A. S. Poletz, on premises. Plate glass. Owner taking sub-bids.

**Bungalow**, Pleasantville, N. J. Architect, D. A. Rosenstein, Humphrey Building, Atlantic City. Owner, W. H. Camp, Pleasantville, N. J. Concrete block, 1½ stories, 43x25 feet, Carey shingle roof, pine floors, hot water heat, electric light, tile work. Owner will sub-let.

**Residence**, Merchantville, N. J. Architect, J. R. Jeffries, 312 Market street, Camden, N. J. Owner, S. O. Clemens, Temple Building, Camden, N. J. Concrete block, stucco, 2 stories, 30x34 feet, asbestos tile roof, pine floors, hot water heat, electric light. Owner will build.

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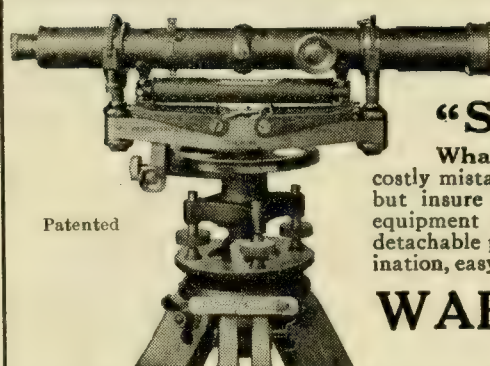
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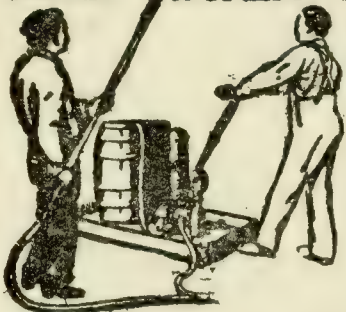
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**Hospital Buildings, Asyla, N. J. Architect,** Arnold H. Moses, Temple Building, Camden, N. J. Owners, Tuberculosis Hospital Association, Camden County, Board of Chosen Freeholders, Court House, Camden, N. J. Reinforced concrete, brick, limestone, steel (plumbing, heating, electric separate bids), slate, Johns Mansville copper roof, cement floors, hollow tile, elevators, metal weather strip, metal ceilings, waterproofing, iron work, bond, fire doors, rolled steel sash and skylights tile, marble and terrazzo work, metal lath, steel partitions, steel lockers. Main hospital building, 3 stories and basement, 383x88 feet; ambulant pavilion (2), 1 story and basement, 106x31 feet; children's hospital, 2 stories and basement, 203x145 feet; dining hall, kitchen and service building, 2 stories and basement, 139x71 feet; community vocational building, 2 stories and basement, 108x151 feet; nurses' home, 2 stories and basement, 60x68 feet; medical staff home, 2 stories and basement, 44x33 feet; superintendent's house, 2 stories and basement, 41x29 feet; garage shops and mortuary building, 2 stories and basement, 89x43 feet; laundry building, 1 story, 72x39 feet. Owners taking bids due December 17th.

**Residences (2), Garages (2), Margate City,** N. J. Architect, Frank Berry, Real Estate Trust Building, Philadelphia. Owner, George W. Kelly, Surrey Apartment, Atlantic City, N. J. Frame and stucco, 2 stories, 23x35 feet, garage, concrete block, 1 story, 15x19 feet, slag and tile roof, pine and cement floors, electric light, hot water heat. Owner taking bids due December 6th.

**Cemetery Building, Camden, N. J. Architects,** Byron H. Edwards and Alfred Green, 34 South Seventeenth street, Philadelphia. Owners, City of Camden, C. H. Raymond Staley, City Hall, Camden. Concrete block and stucco, 1 story and basement, 24x35 feet. Owners taking revised bids due December 10th.

**School, Twenty-ninth and Mickel streets,** Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Cramer Public School, A. Austermyhl, secretary, Camden, N. J. Brick, 3 stories. Plans completed. Will be ready for bids in a few days.

**Residence, Moorestown, N. J. Architect,** Emil G. Perot, Boyertown Building, Philadelphia. Owner, name withheld. Brick, frame and stucco, 2½ stories, irregular size. Details undecided. Plans in progress. Architect will take bids in two weeks.

**Court House, Mt. Holly, N. J. Architect,** E. A. Wightman, Heed Building, Philadelphia.

Owners, Board of Chosen Freeholders, Burlington County, N. J. Brick, steel, stone, 2 or 3 stories, concrete work. Plans in progress. Will be ready for bids in 3 weeks.

**New Jersey****Contracts Awarded**

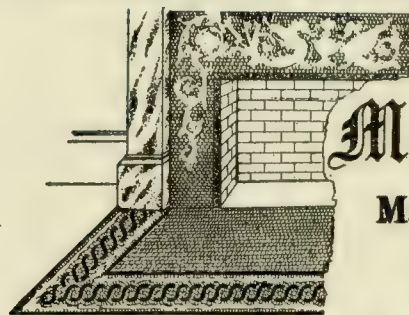
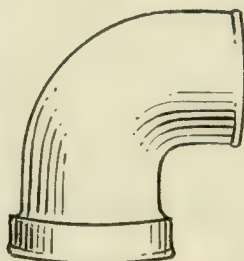
**Y. W. C. A. Building,** Hanover street, Trenton, N. J. Architects, William Thompson, 342 Madison avenue, New York, and J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Y. W. C. A., Mrs. Edward Dunham, 365 West State street, Trenton, N. J. Steel, concrete, brick, 3 and 4 stories, 54x155 feet, 72x55 feet, slag roof, hardwood and concrete floors, hollow tile, roof ventilators, waterproofing and dampproofing (heating, electric work and plumbing reserved), metal lath, rolled steel sash and skylights, fire doors, iron stairs. Contract awarded to C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., \$325,000. Plumbing and heating, Piper Brothers, 108 Brunswick street, Trenton, N. J. Electric work, Carr & Schultz Electric Co., Perry and Stockton streets, Trenton, N. J.

**Paint Shop (fire repairs),** Parvonia Yard, Camden, N. J. Architect, William Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia. Brick and steel, 1 story, 180x225 feet, slag roof, concrete floors, hollow tile, rolled steel sash, fire doors, iron work, rolled steel shutters. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Home (alts. and add.),** Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Camden Home for Friendless Children, care of architects. Brick, 1 story, 18x20 feet, slag roof, cement floors, vapor heat, electric light, plumbing, general interior alterations. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

**Bridges (2) (rebuilding),** No. 2925-2985, South of Folsom, N. J. Architect, private plans. Owners, Philadelphia & Reading R. R. Co., Reading Terminal Building, Philadelphia. Concrete and I beam box, asphalt mastic, waterproofing. Waterproofing contract awarded Johns Manville Co., 210 North Broad street. General contract awarded Fish, Bower, Rutherford, Real Estate Trust Building, Philadelphia.

**Club House (alts. and add.),** Salem, N. J. Architect, C. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Eagle

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Island Gunning Club, on premises. Porches, plumbing, heating, interior alterations. Contract awarded Leslie Sutton, Salem, N. J.

**Lyceum**, Moorestown, N. J. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Our Lady of Good Council, Moorestown, N. J. Brick, 1 story, 53x88 feet, steam heat, electric light, metal lath, slate roof, pine floors ornamental iron work. Contract awarded George W. Shaner, Palmyra, N. J.

## Proposals

**TREASURY DEPARTMENT**, Office of the Supervising Architect, Washington, D. C., November 27, 1923. Sealed Proposals will be opened in this office at 3 P. M., December 26, 1923, for the construction, including mechanical equipment of a one-story and basement brick extension, approximately 42x110 feet in size, and a one-story wood frame mailing vestibule, approximately 24x39 feet in size, at the United States Post Office at Poughkeepsie, N. Y. Drawings and specifications may be obtained from the custodian of the building at Poughkeepsie, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

## NOTICE TO BIDDERS

Sealed proposals will be received by the Camden County Board of Chosen Freeholders for a group of Buildings for the Camden County Tuberculosis Hospital. Drawings and specifications can be seen and all information had by application to the office of Arnold H. Moses, Architect, Temple Building, Camden, N. J. Bids will be received on Monday, December 17th, 1923, at two o'clock P. M.

(Continued from page 772)

3. Through co-operative effort providing each of these apprentices with steady employment through their apprenticeship period.

4. Through the collective efforts of educational authorities, employers' and employees' associations providing a thorough training that will insure, for the future, craftsmen worthy of the name.

Increase in the number of men is not more important than increase in the efficiency of the men now available for work. Relief through this channel can be secured in a number of ways. At present jurisdictional trade regulations define and restrict the kind of work a man may do and consequently largely increase the number of trades and therefore the number of men required for a given operation. There is necessarily an increase in the cost of the work and in the time required for its execution. Out of these restrictive regulations grow jurisdictional strikes which delay work and cause wide-

spread unemployment of labor. A reasonable loosening or modification of these restrictions can be made an important source of relief, not alone to the public, but to the workers as well, because their employed time could be largely increased and periods of unemployment minimized, by permitting the mechanic to do whatever work he could do properly.

Consideration should be given, too, to the repeated statements to the Committee by builders that the individual output on the part of the workmen has been greatly reduced, not only below the normal work standard of the men now employed, but far below the production of men similarly engaged in previous years. It is desirable that in so far as possible the facts in this phase of the difficulty be ascertained and that working conditions fair to all concerned be established.

In many of the detail operations of building construction it is possible through the introduction of machinery to reduce the cost by increasing the output or by shortening the time required by the process or by reducing the number of men necessary to secure a given result. The failure to improve methods in use is due in some cases to lack of enterprise, in others to the restrictive regulations of labor unions. The critical shortage in the man-power elements will be measurably relieved by the use of machine-power, cost will be reduced, time will be saved.

## Balance the Load

That peak loads are not economical is quite well recognized and yet the building industry has been conducted for years on the peak load principle. For six months each year building progresses with frenzy and at a disproportionate expenditure, while during the rest of the year it slows down and usually in the winter months 50 per cent. of the workmen are out of employment. This is not a necessity, but a habit. Mr. H. P. Gillette said recently in an editorial in *Engineering and Contracting*:

"With fairly good roads, with modern machinery and devices with building materials that can be safely used in freezing weather, winter building can be almost, if not fully as economically conducted as summer building, and when consideration is given to all the elements of cost, then winter building construc-

tion becomes so clearly economic that even the most deep-set habit of aversion to it cannot survive."

## Apportion Expenditure

From various sources it is evident that the real estate bond market is reaching the saturation point. Discount on loans is tending upward and this will curtail speculative building. Mr. Christian G. Norman, Chairman of the Board of Governors of the Building Trades Employers' Association of New York, offers some interesting suggestions:

"It seems to me that if we begin from the premise that our available labor and material will, if used fairly efficiently, result in so many structures by the end of a year, we are starting to view the problem in a practical way.

"Let us say that a survey, made by a competent body, reveals that so many men will be available in the building trades for next year. It can be estimated how much work these men would do in a year and so the number of new structures to come from their labor could be calculated.

"Once the survey is made, the heads of the money-lending institutions might meet to consider the problem. If, with

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so many men and so much material, so many structures can be erected, the money-lending officials could determine the ratio of housing to schools and commercial structures. Arriving at such a conclusion and with the ratio of new building to be put up in the course of a year, the conference could then agree to refuse loans on buildings beyond the percentages arrived at as the result of the survey.

"In the past we have attempted to put up buildings without knowing the amount of labor and material available. After all, a thousand bricklayers can only do so much work in the course of a year. Take the number of bricklayers and other mechanics available and see how much work they could complete, making a fair average for a twelve months' period. Then you will have something practical to work with.

"At the present time a man may decide that his business would increase if he built a new structure. He may go into a market already overburdened with orders for labor and material. The result is instability, bonus conditions in the trades and disorganization.

"When builders of speculative apartments compete for labor, the building of schools, which are very much needed, is retarded. By such a survey as I have indicated it appears to me that we would have all the apartments, schools and commercial buildings that the labor and material available in the course of a year could produce. Certainly one cannot expect to make plans for scores of more buildings than can be produced with the supply of labor and material at our command and then actually succeed in building them."

In this connection it was pointed out by Mr. Norman that a nation-wide survey by architects recently showed that for the next year the building projects of the United States would be proportioned as follows: Housing, 35 per cent.; education, 20 per cent.; public works, 20 per cent.; business, 15 per cent., and industrial, 10 per cent. He did not mean that these percentages should prevail in New York, as local conditions would determine the proportion of each class of structures to the entire building program.

#### Outlook

*The Contractor* has made a survey, obtaining the opinions of many men actively engaged in the building industry which touches the pulse of the situation. Conditions affecting construction activities next spring will be closely similar in character to those which prevailed at the opening of the eccentric building season of 1923. The belief in some quarters seems to be that an unusual amount of work is to be undertaken for completion during the first month of 1924. In some sections of the country where the defi-

ciency in buildings is especially noted, leaders are advocating that winter construction be urged, with a softening of prices of materials and of wages being held as inducement for this step to be taken to avert an extraordinary demand during the months when construction most ordinarily is placed under way.

The outlook for the building program during 1924 is for continued construction in large volume, but with greater stability. An adjustment is very nearly arrived at and with the acceptance of the higher price levels, construction programs may be entered upon with a degree of certainty that has not existed during the last several years.

*Wm. Phillips Comstock in Architecture and Building.*

#### FORECAST NO HIGHER WAGES, HEAVY BUILDING

##### *Association Views on Outlook for 1924 Construction*

Comment on present conditions and the future outlook is thus presented in the current issue of the National Bulletin of the Association of Building Trades' Employers:

"It is perhaps too soon to begin a survey of probable conditions in the labor market for next year, but judging from data which has been gathered by the National Association of Building Trades' Employers, 1924 will not be much different than this year as far as the shortage of mechanics in the building industry is concerned. It is expected that the volume of construction for 1923 will exceed that of any previous year, and from every indication 1924 will equal if not surpass the high mark set this year.

"The movement which was started some little time ago toward the elimination of seasonal unemployment has gained considerable headway, and it is likely that the peak load will be distributed a little more evenly than has been the case heretofore. Judging from the number of large projects which will be carried over into the winter months, labor will be steadily employed through a season during which formerly there was but little work.

"Except in isolated cases there have been no wage increases granted to the building trades during the past two or three months, and many cities report that the bonuses which were paid earlier in the season are no longer necessary.

"It is generally believed that the building trades will not make a fight for higher wages when present agreements expire, but will endeavor to have existing contracts extended for another year. According to the National Industrial Conference Board, American labor is receiving higher 'real wages' than at any

time since 1913, not even accepting the peak period of 1920. The cost of living in July, the latest time when comprehensive figures were available for a survey, was 61.9 per cent. above the 1914 level, and this was a decline of 20.8 per cent. from the peak of high prices in July, 1920. The chief item holding up living cost is rent, which is 75 per cent. above the 1914 level, but on account of the immense home building program which has been carried on this year throughout the country it is believed that lower rents can not help but become a reality."

#### PHILADELPHIA BUILDING PERMITS DROP IN NOVEMBER

*Construction, \$5,406,040, Decline of \$5,544,270 from October*

The estimated cost of all construction for which permits were issued by the Bureau of Building Inspection in November amounts to \$5,406,040 and accounts for 1335 operations. This is a decrease of \$6,010,000, as compared with the corresponding month for 1922, and a decrease of \$5,544,270 as compared with the preceding month of this year.

So far this year the bureau has issued permits for construction totaling \$118,251,940, an increase of \$11,338,260, compared with the same period last year. The increase over last year's business reached more than \$23,000,000 in the summer, but has been steadily decreasing from that time.

Decrease in dwelling construction is one of the reasons for November's low total. In November, 1922, permits were issued for 507 two-story houses, costing \$2,757,150, while in the last month the total was 290 two-story dwellings, costing \$1,625,600. The statement follows:

Character	Permits	Operations	Estimated cost
1-story dwellings..	1	1	\$900
2-story dwellings..	41	290	1,625,600
3-story dwellings..	7	13	205,000
Frame dwellings ..	23	32	174,915
Tenement houses..	1	1	150,000
Manufactories ...	2	2	46,000
Workshops .....	11	11	36,500
Garages .....	201	216	818,545
Office buildings ..	2	2	7,800
Warehouses .....	8	8	353,500
Eng. and boil.			
houses .....	1	1	45,000
Churches .....	2	2	120,000
Halls .....	1	1	50,000
Bank buildings ...	1	1	70,000
Misc. buildings ...	19	19	21,415
Additions .....	212	214	674,140
Alts. and repairs..	352	375	701,160
Misc. work .....	124	128	63,775
Heaters .....	6	6	3,780
Fire escapes .....	9	9	4,175
Signs .....	19	19	5,255



Power house . . . .	1	1	4,600
Recreation bldgs. .	2	2	104,000
Gymnasium . . . . .	1	1	120,000
Totals . . . . .	1053	1335	\$5,406,040

# INTERVIEW WITH FRANKLIN D. ROOSEVELT, PRESIDENT OF THE AMERICAN CONSTRUCTION COUNCIL

## *Emergency on Winter Construction*

"When winter comes," construction men know that "spring is not far behind." Unfortunately through the years the idea became fixed that the winter season was disadvantageous to successful prosecution of construction projects. But winter construction has been done, can be done and should be done.

In the early days of the country's development, when time was less essential than it is today and when our industrial situation was less complicated, it was seemingly justifiable to defer building until climatic conditions made matters a little easier. In our present rapid age when our vast population consumes the limit of production in many lines, construction cannot afford to doze in the atmosphere of mid-Victorian non-aggressiveness.

There is the possibility of a volume of construction for 1924, if present indications are sound, equal to if not greater than for 1923. Realizing this the Council recently urged all those interested in essential building projects in the near future to undertake such work at as early a date as possible in the fall or winter.

If winter is to bring a lull in meeting the demand for construction next Spring will find the construction industry confronted with problems of shortage in materials and labor, transportation difficulties, and a rising market that will seriously interfere with its progress. If that occurs the public will be forced to incur costly delays in getting needed improvements and run the risk of higher if not prohibitive prices.

The advantages of uninterrupted construction throughout the year must be apparent to everyone. Whether used as an ameliorative on transportation problems, or as an aid to continuity of employment, or as a necessity in stabilizing production of materials, or as an effective contribution to the public demand for construction projects, every day added to construction is of incalculable value.

It is curious to note how tenaciously prospective investors in construction projects and builders cling to the obsession that winter work is impracticable. I have indicated how this practice arose in the earlier days and I am sure that a brief consideration of the winter of 1917 will reveal that cessation of construction during the winter months is the result of a

psychological hallucination. The most severe winter weather was encountered in 1917—blizzards, extreme cold, and high winds. But the nation was at war. All along the Atlantic seaboard, docks, piers, foundries, factories and warehouses were in course of construction. Did a blizzard bring delay? Not much. Tons and tons of steel were bolted up while the snowflakes sizzled on the red rivets. Yards of concrete were poured while the tamperers' gloves froze to the shovels. But the work went on. The job was done. The possibility of a twelve months' construction year was revealed.

Notable instances of major operations conducted during the Fall and Winter months during the past year or two with savings in construction costs ranging as high as ten per cent. show the practicability of winter work and the benefits immediately accruing to individual owners and the public as well as to builders and labor on the job.

The country's need today is very acute. The construction industry must stand or fall in its obligation to the public as it meets that need or fails to meet it. It must have the help of those who contemplate building or other construction projects if it is to meet this need. Every day lost means an added accumulation to the growing demand.

The large volume of construction contracted for and already started during the Fall months shows that the public has thus far responded favorably in undertaking winter work. But more winter work should be done. Let every prospective builder who contemplates necessary construction during the coming year go ahead now with the work.

**T**HAT labor unions as well as employers are growing more and more concerned about the apprentice problem is shown in two recent developments toward the training of apprentices at Carnegie Institute of Technology in Pittsburgh. In both of these developments, which have the one ultimate purpose of better training, but which are along different lines of work, the significant parallel has been the fact that the local labor unions have taken the initiative in seeking the apprentice training.

One of these organizations is the local of the International Wood, Wire and Sheet Metal Lathers union which has effected a working agreement with Carnegie Tech whereby the union apprentices to the union will be trained there. As a result of this agreement, 15 apprentices have been recently enrolled at the Institute and are compelled by the union to attend night school classes at three nights a week for the next two years.

The other development is the result of

an agreement between the Local Union No. 12, Amalgamated Sheet Metal Workers' International Alliance and the Sheet Metal Contractors Association of Pittsburgh. Subsequent to this important partnership between organized labor and the employers, a group of more than 60 sheet metal apprentices is now enrolled at Carnegie Tech to receive training one full day a week for the last four years of the five-year apprenticeship period. The agreement takes on added significance from the announcement that the employers have agreed to pay the apprentices their full wages for the day they spend in classes; and the union officials have taken the responsibility of compelling attendance to classes.

While both of these movements are unique, officials of Carnegie Tech and others interested in apprentice training consider them as indicative of a growing tendency among both labor union officials and capitalistic interests to co-operate toward the solution of the apprenticeship problem. Pittsburgh now holds the distinction of being the only city in the country to take definite steps in the training of apprentices by organizing of labor, employers, and educational interests into a common cause.

The final enrollment of the sheet metal lathers, apprentices took definite shape at a recent meeting of the local union of the International Wood, Wire and Sheet Metal Lathers when C. B. Connelley, Director of Industrial Relations at Carnegie Tech, conferred with the members and addressed them in opening meeting. The plan has already received the endorsement of the international officials of this union when the tri-annual convention of this union unanimously endorsed Carnegie Institute of Technology as the official institution to train its apprentices who reside east of the Mississippi River.

A report from the Institute indicates that the training of the 15 apprentices is already progressing rapidly. The two-year course for the class as outlined includes elementary mathematics, mechanical drawing, and shop work.

Among the novel and somewhat radical terms of the agreement between the local sheet metal workers union and the Pittsburgh sheet metal contractors association for the training of apprentices is the stipulation that every apprentice attached to the union "must and shall attend Sheet Metal Class at Carnegie Institute of Technology the last four years of his apprenticeship, or until he has finished the course for Sheet Metal Apprentices." The extent of co-operation to which the employers have committed themselves to assist in the training is recorded in the section of the agreement which says, "The employer shall send the apprentice to the Carnegie Institute of



Technology for trade instruction one day each week from October 1 to May 1 during the last four years of his apprenticeship. The apprentice shall be allowed his regular wage for days while attending school."

A special course for the apprenticeship training has been outlined at Carnegie Tech, the subjects including shop work, patterndrafting, and mathematics. The class has been separated into four subclasses, each group attending the Institute one full day each week. Each apprentice pays his own tuition fee.

As a reward for high scholarship in their studies at Carnegie Tech, special terms have been written into the agreement by means of which it has been made possible for a studious apprentice to receive increased wages. "As a reward of merit," says the agreement, "any apprentice receiving grade 'A' marks at the end of any school year shall receive two months' credit on his next eight months' period, thus reducing that period to six months." As all of the apprentices are paid a definite scale of wages that is automatically increased every eight months, the scholarship plan gives each an opportunity to secure his next regular increase two months earlier each year.

A joint committee consisting of three members of the Contractors' Association, and three union officials, has been selected to act in an advisory capacity between apprentice and school, to adjust all differences that may arise, to terminate the apprenticeship and services of the apprentice if necessary, and to pass upon the admission of the apprentice applicant to journeymanship.

### SOME COLD-WEATHER DON'TS

BY A. J. R. CURTIS

Concise information of value to contractors who will find it profitable to place concrete and masonry in cold weather:

1. Don't delay ordering supplies of sand, gravel and stone for winter concreting. The pits usually close down with the first hard freeze. Sand and gravel frozen in the cars are very difficult and expensive to handle.

2. Don't allow your concrete work to "drag." Many a job of concreting promptly handled will be completed in advance of freezing weather, permitting other parts of the work to proceed during the winter.

3. Don't wait until there is a freeze before planning measures to protect your concrete work. Have tarpaulins, building paper or straw on hand so that they can be used to cover the work as soon as the temperature seems likely to go below 40 degrees over night.

4. In covering newly deposited concrete don't neglect the corners and other

protruding portions. These are the parts of the work most likely to suffer and cause the greatest disfigurement in case of spalling or cracking as a result of freezing. Tears and holes in the tarpaulins and careless lapping are responsible for most frozen spots.

5. Don't use any more mixing water than is necessary for good results—it's the water in the mixture that freezes and less water means less chance for frozen concrete. When the weather becomes continually cold, below the freezing point frequently, the mixing water should be heated. For greatest efficiency use the mixing water as near the boiling point as possible.

6. Don't use aggregates—sand, gravel or stone—which contain ice or frost. If the use of hot water is not sufficient to melt frost and raise the temperature of the mass to 60 degrees, heat the aggregates. This can be done by means of a pipe stove. Move or stir the material frequently so that they are heated uniformly. They may be heated to 150 or 200 degrees.

7. Don't deposit concrete in cold or icy forms. The surface of the concrete may be chilled if you do, with the possibility of spalling. This applies particularly to steel forms. A steam hose or hot water used immediately before placing the concrete will prevent trouble from this source.

8. Don't move the mixed concrete any further than is necessary. Locate the mixing plant as conveniently as possible. This will conserve a great deal of heat.

9. In extremely cold weather don't let the materials be cooled off at the mixer. The mixer drum may be heated by means of a steam jet or an oil torch especially designed for this purpose.

10. When the thermometer is around zero, don't trust to tarpaulins to protect work against freezing. Run live steam under the canvas, or, if the nature of the work will permit use salamanders (coke stoves) or lamps. If steam is available, steam coils will be found more efficient and more easily managed than salamanders.

11. Don't rely upon salt to protect concrete work against freezing. It is inefficient and unreliable. Moderate quantities of salt lower the freezing point a few degrees but also retard the hardening action. Larger quantities of salt are harmful to strength, promote corrosion of reinforcing metal, invite efflorescence (white chalky deposit) and are said to cause trouble from electrolysis. Moderate quantities of calcium chloride, used as recommended by a good engineer, are frequently helpful.

12. Don't depend upon the very small amount of heat generated by the reaction between the cement and water to protect

the work against freezing. The heat so generated is so small as to be disregarded.

13. Don't remove forms too soon. As the temperature drops below 50 degrees Fahrenheit the length of time required for concrete to harden increases very rapidly. In extreme cold, forms are sometimes left in place two or three weeks, especially where the concrete is carrying a load of concrete above.

14. Don't take a chance of collapse by either removing forms or imposing loads on work not sufficiently hardened. Where the slightest doubt exists at least ten square feet of the concrete should be heated with hot water or steam to determine whether it has hardened or is merely frozen.

### A DAY'S WORK

No argument is necessary to prove that the efficiency of construction labor is steadily declining. Nor is it necessary to go into details to prove why. The sad fact is that men simply do not do a real day's work any more. The worst of the situation is that there seems to be little prospect of relief. Certainly restrictions on immigration are not going to be eased; they are more likely to be increased. The union movement is gaining strength constantly. Other conditions all point to less and less efficient labor on construction jobs.

Contractors complain of their inability to make money because of this situation. The facts are that very few are making any money. Nor is this surprising in view of the amount of work still done by hand or by methods that were out of date before the war. In spite of our boasts we still depend largely on hand labor, although many a losing job could be turned into a profit by using machines instead of men.

Low labor efficiency and composition are going to force contractors who stick to hand labor either to quit or to follow the lead of successful concerns and use machines wherever they will replace men to advantage. And it is well to keep in mind that machines are making good on small jobs where they would have been impractical a few years ago.—*Associated Contractor*.

### ANNOUNCEMENT

Mr. B. M. Christman, formerly Philadelphia Representative for Gehret Bros.' Iron Works, has severed his connection with this company November 24th, 1923, and now is associated with The Wm. F. Remppis Co., Ornamental and Architectural Iron Works, of Reading, Pa., as Assistant Manager.

Inquiries may be addressed to Philadelphia Office, 331 Perry Bldg. Phone, Spruce 2589.

**Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.**



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BOILER AND PIPE COVERINGS.

Keasbey & Mattison Co. ....1927 Market St., Phila.  
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill. Phila.

## CEMENT.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill. Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLD STORAGE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....Darby, Pa.  
Gramm, Price, Turner, Inc.,  
176 E. Tulpehocken St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## CORK FLOORING

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## CURTIS WOODWORK.

Gillingham Co. ...Norris and Richmond Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ELEVATOR DOOR CONTROLLERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## ELEVATOR DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.  
McDevitt, John F. ....1403 N. 20th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## FIRE-PROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

Ketcham, O. W. ....121 N. 18th St., Phila.

## HOT WATER GENERATORS.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## HOUSE CLEANING.

Keystone House & Window Cleaning Co.,  
1219 Filbert St., Phila.

## HOUSE MOVING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.  
Philadelphia Fire & Marine Ins. Co.,  
1711 Chestnut St., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....34 S. 16th St., Phila.

## LEVELS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LINOLEUM.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LINOTILE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Gillingham Co. ...Norris and Richmond Sts., Phila.  
Ketcham, Howard.....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE MOSAIC.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MILLWORK.

Gillingham Co. ...Norris and Richmond Sts., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories...1432 S. Penn Square, Phila.

## PAPERHANGING AND DECORATING.

Sukerman, S. ....2958 N. 22nd St., Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Lukens, Lewis N. ....19th and Washington Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.

## SAND AND GRAVEL.

DeFrain Sand Co. ....Finance Bldg., Phila.  
Fairlamb, P. H., Co. ....115 S. 30th St., Phila.  
Knickerbocker Lime Co. ....24th and Callowhill. Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEET METAL AND ROOFING.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## SHEETROCK (Wall Board).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## SHORING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS.

Uhrig Brothers.....528 E. Wishart St., Phila.

## STAIRS (Sheet Steel).

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STEAM SHOVEL CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## STEAM SPECIALTIES.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## STEEL SASH.

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STONE.

Brenz, Wm. P. ....5321 Baltimore Ave., Phila.  
John D'Lauro.....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair.....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.

Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

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## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## UNDERPINNING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## WALL BOARD, COMPO BOARD

Ketcham, Howard .....3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.

## WATER PAINT.

Southern, Wm. B.N. W. Cor. 12th and Spruce, Phila.

## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## WHITEWASHING.

Southern, Wm. B.,  
N. W. Cor. 12th and Spruce Sts., Phila.

## WINDOW CLEANING.

Keystone House & Window Cleaning Co.,  
1219 Filbert St., Phila.

## WINDOW GUARDS (Wire).

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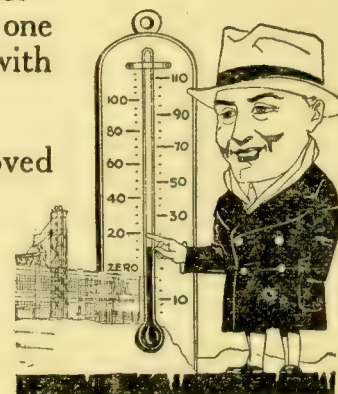
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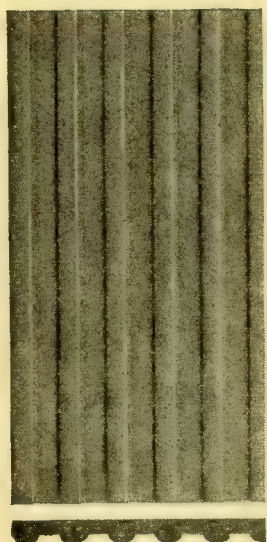


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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 50  
December 12, 1923

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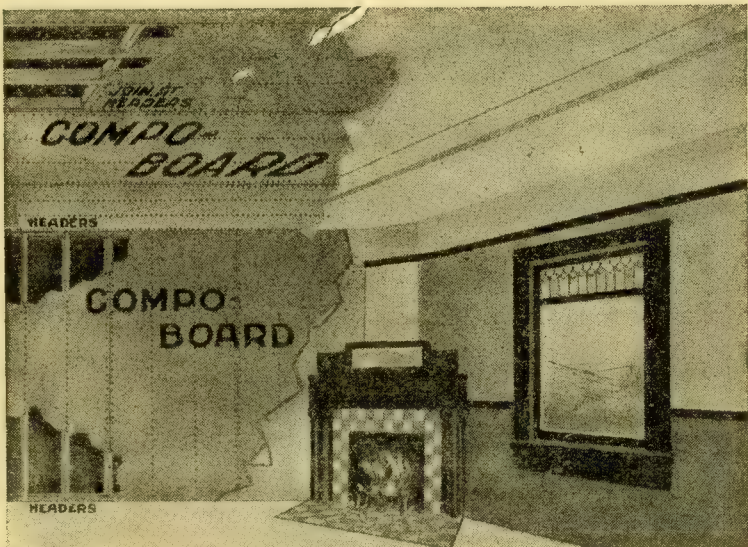
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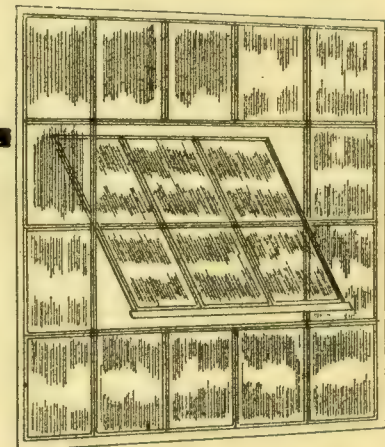
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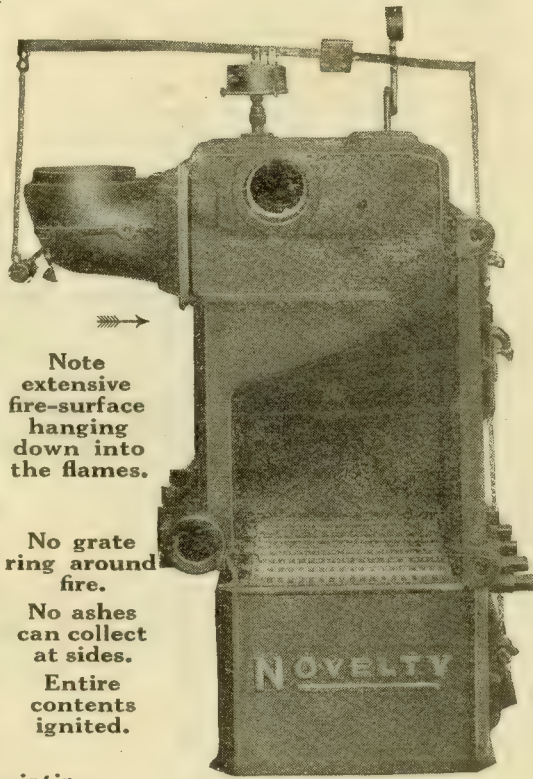
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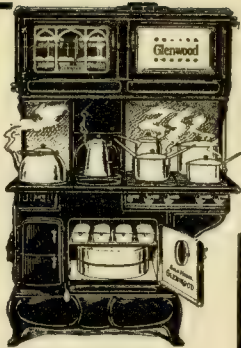


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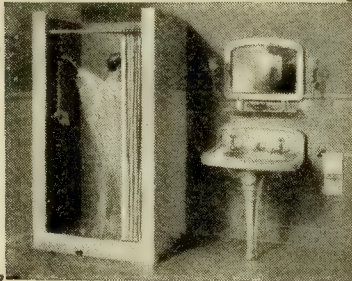


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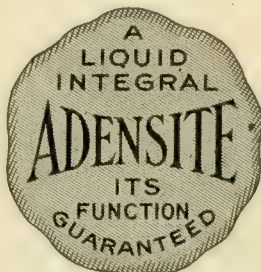
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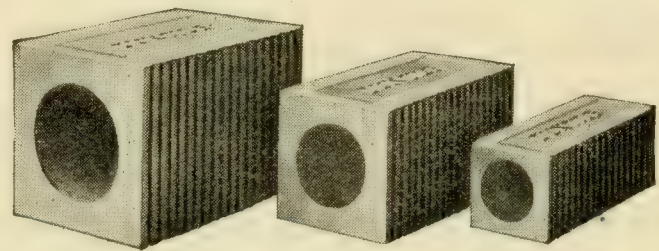
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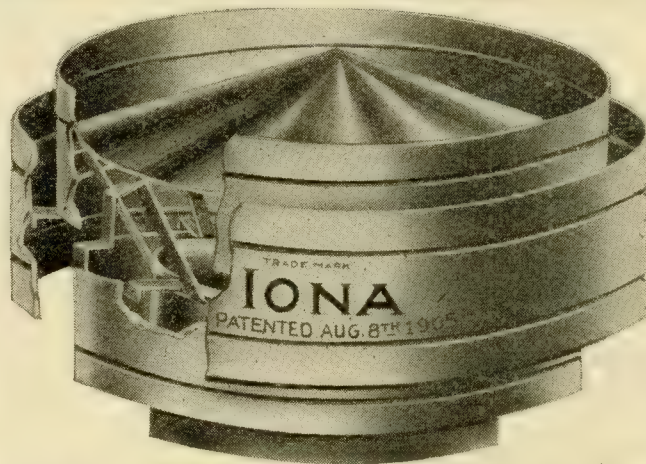
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 50

PHILADELPHIA  
December 12, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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Entered at the Post Office at Philadelphia as  
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## As The Editor Sees It



### NATIONAL CONFERENCE STUD- IES PROBLEM OF APPRENTICE TRAINING IN BUILDING TRADES

The joint committee system of supervision, under which all the interested elements in the industry have representation, has proven to be the most practical method of apprentice training in the opinion of the delegates who attended the conference on apprentice training in the building trades, held in Washington, D. C., in November.

Reports were heard summarizing the experience of the building trades in Philadelphia, New York, and Cleveland, where the joint committee system has been tried out successfully. The work of the Apprenticeship Commission of New York City was described. It was the consensus of opinion of those attending the conference that the joint committee plan should be employed by the industry wherever possible.

Another problem which engaged the attention of the conference was how to standardize methods of apprentice instruction. In this connection, an interesting report of the experience of the Associated Tile Manufacturers was given. A committee of experts, appointed by the Association, has recently worked out and analysis of the 19 basic jobs which are included in the tile setter's trade, with the most efficient method of

doing each job. To further test the practicability of this data, a class of 17 picked boys was sent to Dunwoody Institute, Minneapolis, at the expense of the Association, where they received 13 weeks of intensive training, under the observation of experts. Their experience fully demonstrated the instructional value of the standards which had been worked out.

The Tile Manufacturers favor the plan of giving three months of full-time intensive training in class to apprentices, before they go upon jobs, it was reported. For this three month course, they receive six months of credit on their total apprenticeship period. Contractors have found the pre-employment plan of training much less costly than to place raw apprentices directly on the job where they waste the time of the journeymen. Another interesting report on standardization of training methods was offered by the Master House Painters and Decorators' Association. In this trade, a syllabus and text book for use in training apprentices have been prepared. It was reported that during the past year over 7,500 copies of the text book have been distributed to contractors, and others interested.

After full discussion of different aspects of the problem, ten general principles which should underlie apprenticeship training in the building trades were agreed upon by the delegates. These principles are:

(1) That a local representative committee, composed of all interests in the industry, is essential to determine the needs, and to supervise training.

(2) That part-time or evening schools should be provided to supplement job training.

(3) That "all-around" training is more desirable than specialized training.

(4) That national associations should set up fundamental training standards for apprentice training, and make information thereon available for instructional purposes.

(5) That co-operation with the public schools is essential in promoting apprentice education.

(6) That adequate incentives should be set up to induce boys to enter apprenticeship.

(7) That pre-employment training for employed apprentices or boys under contract to be employed is recommended.

(8) That emphasis should be placed upon dull season classes to follow up the initial training given in the pre-employment period.

(9) That the local representative committee should see to it that a well-qualified instructor is provided.

(10) That the difference between the problems involved in training apprentices for the building trades and those involved in shop trades should be recognized.

The activities of the American Construction Council in the field of appren-

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tice training were discussed and the following resolution was adopted by the delegates:

*Whereas*, the necessity for the adoption of a national policy will give direction to the education of craftsmen, modified to suit local conditions.

*Therefore, be it resolved*, That it be the sense of this meeting that the American Construction Council, comprising as it does the various elements making up the construction industry, in co-operation with the Federal Board for Vocational Education shall immediately employ such means as are necessary and proper to put into effective operation methods that will train and enroll skilled workers into the industry.

It was announced by Frank Cushman, Chief of the Industrial Education Service of the Federal Board for Vocational Education, who presided over the conference, that regional conference of representatives of the building trades employers', employees', and manufacturers' organizations are being projected for different sections of the United States under the auspices of the Federal Board for Vocational Education, to discuss local apprenticeship problems.

Among those in attendance at the conference were:

D. H. Sawyer, Washington, D. C., Associated General Contractors; Henry R. Sandholzer, Rochester, N. Y., The Rochester Association; Earl F. Stokes, Baltimore, Md., National Association of Builders' Exchanges; F. W. Walker, Beaver Falls, Pa., Associated Tile Manufacturers; J. A. Brown, Pittsburgh, Pa., Associated Tile Manufacturers; Jos. A. Krausman, Detroit, Mich., Associated General Contractors; Leonard C. Wason, Boston, Mass., Associated General Contractors; D. Knickerbacker Boyd, Philadelphia, Penna., American Construction Council; L. S. Hawkins, Chicago, Ill., United Typothetae; E. L. Bowman, Evansville, Ind., National Trade Extension Bureau; E. M. Craig, Chicago, Ill., Building Construction Employers' Association; A. W. Dickson, Cleveland, O., National Association of Building Trades Employers; W. S. Hays, Philadelphia, Pa., National Slate Association; Burton A. Ford, Washington, D. C., National Lime Association; Wm. P. Carroll Cleveland, O., National Association of Building Trades Employers; J. O. Reed, Pittsburgh, Pa., Master Builders' Association of Allegheny; John M. Gries, Washington, D. C., United States Department of Commerce; Harry C. Knisely, Chicago, Ill., Sheet Metal Contractors' Association; Robert D. Kohn, New York, N. Y., American Institute of Architects; A. H. McGhan, Washington, D. C., Master House Painters' and Decorators' Association; Edward McDonnell, Detroit,

Mich., Contracting Plasterers' International Association; Oscar A. Reum, Chicago, Ill., Contracting Plasterers' International Association; Mrs. Marcella Richardson, United States Chamber of Commerce; Edward Lee, Pittsburgh, Pa., Dwight L. Hoopingarner, New York, N. Y., American Construction Council; J. E. Sweeney, Detroit, Michigan, General Builders' Association of Detroit.

Representatives of organized labor were invited to attend, but were unable to be present owing to previous engagements.

### NEW YORK BUILDING CONGRESS ENDORSES WINTER CONSTRUCTION

The movement to encourage winter building construction, not only as an economic proposition but as the best method of aiding the supply of housing to meet demand, was discussed from its various angles at two largely attended meetings of the New York Building Congress held last week.

The consensus of opinion of engineers, contractors and builders who attended the meetings was that winter building cannot only be carried on successfully from November to March, but a very large saving can be made in the cost of labor and materials.

Facts and figures to prove the claim were presented by several of New York's largest construction firms.

At the first meeting ways and means were discussed, while at the second gathering figures on jobs completed where big savings had been made were presented, proving the case conclusively. Harold M. Shreve, of Carrere & Hastings, outlined generally the reasons why winter building is sound from every economic viewpoint and presented a composite chart which graphically brought out the salient facts regarding the benefits of winter building. In explaining the chart, Mr. Shreve said:

"This chart shows applications, permits to build, in twenty cities, for the United States during the year 1922-23, plotted monthly, and shows that in the Spring everybody gets busy and applies for permits to build. A little later in the year they don't want so many. Last year, after they had made a splurge in March and the situation with which we are all familiar had developed, they made very much less of a fuss in April than they did in March about going ahead. There is your Spring slump of last year.

"The contracts awarded in 27 States are also shown by months. The New York Building Department for the last ten years shows when people make their alterations in New York, and we have made up a composite curve showing when alterations are made in New York, this

(Continued on page 798)

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CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

**Residence**, Westview and Wissahickon avenue, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Edward Baines, 5106 Germantown avenue, Philadelphia. Stone. Plans in progress. Too early for details.

**Stable and Dormitory**, Erdenheim, Chestnut Hill, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, G. D. Widener, on premises. Stable, frame, 1½ stories, 420x60 feet, 30 box stalls and feed room; dormitory, stone and frame, 2 stories, 75x40 feet, steam heat, electric light, slate roof, pine floors. Plans in progress.

**Residence**, Wakefield and Large streets, Frankford, Philadelphia. Architect, Joseph Lowery, Land Title Building, Philadelphia. Owner, J. W. Connor, care of architect. Plans in progress. Too early for details.

**Residences and Garages (6)**, Sixty-first and Nassau streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Samuel Schlosberg, Pine above Forty-ninth street, Philadelphia. Stone, brick, stucco, 3 stories, 16x48 feet, 1 story, 10x18 feet, hot water heat, electric light, slate, slag and tin roof, hardwood and cement floors, tile and marble work. Owner ready for sub-bids.

**Residences (36)**, Fiftieth and Pine streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Herman, Bobb & Weinstein, 1206 South Sixtieth street, Philadelphia. Brick, 2 stories, 16x52 feet, hot water heat, electric light, metal lath, tile and marble work, tile and slag roof, hardwood floor, cement work, garages in basement. Owner ready for sub-bids.

**Residence**, Latham Park, Pa. Architects, Lemler and Williams, 1537 Chestnut street, Philadelphia. Owner, Louis Burke, Fourth and Girard street, Philadelphia. Brick, plastered limestone trim, 2½ stories, 100x30 feet, tile roof, hardwood floors, electric light, vapor heat, tile and marble work. Plans about completed. Architect will take bids in about 10 days.

**Shelter Building** (Hanover Playground), East Columbia avenue and Earl streets, Thompson street, Philadelphia. City architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595

City Hall. Painting and glazing, plastering, concrete and cement, steel and iron work, carpentry and mill work, terra cotta, hardware, asbestos shingle roof. Ready for bids in a few days.

**Delaware River Bridge**, Contracts Nos. 9-10, demolition. Architect, private plans. Owners, Delaware River Bridge Joint Commission, 806 Widener Building, Philadelphia. Demolition and removal of property on sites of Philadelphia and Camden approaches; separate bids on each 5 sections of Philadelphia approaches and each 4 sections of Camden approach, including demolition, removal of structures and certain other work incidental thereto. Deposit, \$10.00. Refund, \$10.00. Certified check, \$3,000. Owners taking bids due December 19th at 2.30 P. M.

**Building (alts.)**, Southwest Corner Fifth and Market streets, Philadelphia. Architect, Gabriel B. Roth, 1629 Sansom street, Philadelphia. Owner, name withheld. Steam heat, electric light, metal lath, marble work, bond, iron work, painting and glazing, tin roof, oak and maple floors, plumbing, metal ceiling. Architect taking bids due December 15th.

**Parochial School**, Rhawn and E streets, Fox Chase. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, St. Cecilia's Roman Catholic Church, Rev. J. F. Burke, on premises. Brick, 2 stories, 53x115 feet, slag roof, maple floors, tile and marble work, bond, iron work. Architects taking bids due December 15th.

**Touraine Apartments (alts. first floor)**, 1520 Spruce street, Philadelphia. Architect, F. R. Wurster, 1530 Locust street, Philadelphia. Owners, Touraine Apartments, 1520 Spruce street. Cut stone, hardware, heating alts., plumbing alts., carpentry and mill work, plastering, re-bronzed elevators, tile work, Backite partitions, painting and glazing. Architect taking bids due as soon as possible.

**Residence**, Cresheim Valley and Ardmore avenue, Philadelphia. Architect, R. A. McCaskey, Estey Building, Philadelphia. Owner, A. Judson Sailor, care of architect. Stone, 2½ stories, 30x50 feet, slate roof, oak and pine floors, hot water heat, electric light. Architect taking bids due as soon as possible.

**Apartment House**, Evergreen and Crefeld avenue, Chestnut Hill, Pa. Architect, R. R.

McGoodwin, 1422 Walnut street, Philadelphia. Owners, Chestnut Hill Apartment Co., S. Houston, Real Estate Trust Building. Stone, 3 stories, 360x110 feet (30 apartments), steam heat, electric light, metal lath, tile and marble work, oak and pine floors, hollow tile, slag roof. Architect taking bids due December 19th.

**Store Building (alts. and add.)**, 5615 Germantown avenue, Philadelphia. Architect, Addison Savery, 1309 Locust street, Philadelphia. Owner, C. A. Rowell, on premises. Brick, 3 stories, 35x54 feet. Owner will be ready for general bids December 10th.

**Residences and Garages (6)**, 7214-24 Emlen street, Philadelphia, \$5,500 each. **Residences and Garages (6)**, 401-11 West Mt. Airy avenue, \$5,200 each. Architect, private plans. Owners, Anastasi Brothers, 1929 South Tenth street, Philadelphia. Brick, (6) 15x21 feet, 20x26 feet, and (6) 14x21 feet, 18x26 feet, hardwood and pine floors, electric lighting. Owners will build.

**Residences (13)**, East side Twenty-first street, South of Nedro avenue, \$59,500. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Parker & Spaeth, 815 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 16x28 feet, slag and slate roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Stores and Offices**, Northeast Corner Fifteenth and Fairmount avenue, \$35,000. Architect, private plans. Owner, Edward A. Harris, 2220 Chestnut street, Philadelphia. Brick, 2 stories, 60x70 feet, slag roof, electric lighting. Owner will build.

**Residences, Stores and Garages (22)**, Limekiln Pike, Middleton and Andrews streets, Philadelphia, \$177,000. Architect, private plans. Owner, J. J. Kelly, 6728 York Road, Philadelphia. Brick, 2 stories, (2) 16x54 feet and (20) 16x32 feet, 10x11 feet, slag roof, hot water heat, electric light. Owner will build.

**Residences (15)**, East side Edgemore Road, South of Lansdowne avenue. Architect, private plans. Owner, Pompey Ansil, 6503 Race street, Philadelphia. Brick, 2 stories, 15x35 feet, 12x9 feet, slag roof, hot water heating, electric lighting. Owner will build.

**Residences (5)**, South side Haddington avenue, West of Sixty-second street, total \$36,000. Architect, private plans. Owner, A. Peskowitz, 1906 South Fourth street, Philadelphia. Brick, 2 stories, 16x51 feet, 9 inches, tin roof, hot water heat, electric lighting. Owner will build.

**Residences (4)**, South side Durham street, East of Anderson, \$15,000 each. Architect, private plans. Owner, A. S. Tourison, Jr., 7014 Boyer street, Philadelphia. Stone, 3 stories, 27x42 feet, 1 story, 23x17 feet, slate roof, hardwood, pine and cement floors, hot water heat, electric light, tile work. Owner will build.

**Residence**, East side Pine Road, North of Hoffnagle street, \$6,000. Architect, private plans. Owner, Jacob Gaertner, 7225 Oxford

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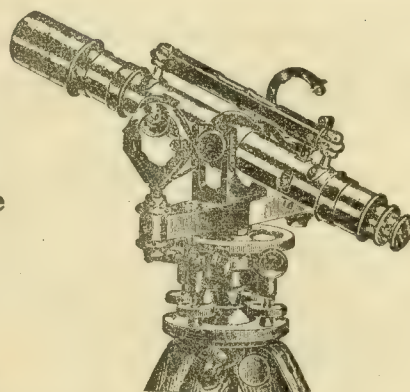
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avenue, Philadelphia. Brick, frame, 2 stories, 30x39 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences and Garages (26)**, Sixty-fifth and Chester avenue, \$135,000. Architect, private plans. Owners, Local Building Co., 5213 Chestnut street, Philadelphia. Brick, 2 stories, (16) 16x32 feet, (6) 15x27 feet, 12x9 feet, and (2) 28x18 feet, 15x12 feet, hot water heat, electric light, tile work, hardwood and pine floors. Owners will build.

**Apartment House**, 1209-11 South Fifty-eighth street, Philadelphia, \$75,000. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, J. Binder, 1817 South Fourth street, Philadelphia. Brick, 4 stories, 41x24 feet, 33x86 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Store and Residence**, Northeast Corner Forty-seventh and Parrish streets, \$7,000. Architect, private plans. Owner, W. C. Dean, 239 South Felton street, Philadelphia. Brick, 2 stories, 17x41 feet, 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Apartment (alts.)**, 1420 North Fifteenth street, Philadelphia, \$3,000. Architect, private plans. Owner, Samuel Detwiler, 1724 North Camac street, Philadelphia. General alterations. Owner will build.

**Store and Residence**, 4776 Richmond street, Philadelphia, \$5,000. Architect, private plans. Owner, Val. Furtak, 2829 Jenks street, Philadelphia. Brick, 2 stories, 14x51 feet, hot water heat, electric light. Owner will build.

**Garage and Storage Building**, 1926 North Marshall street, Philadelphia, \$3,500. Architect, private plans. Owners, Shechtman Brothers, 1924 North Marshall street, Philadelphia. Brick, 2 stories, 16x50 feet, cement floors, electric lighting, hot water heating. Owners will build.

**Residence**, 1245 Colona street, Philadelphia, \$3,500. Architect, private plans. Owners, O'Connor Brothers, 2310 East Cumberland street, Philadelphia. Brick, 2 stories, 15 feet, 9 inches x 37 feet, 10 inches, slag roof, hot water heat, electric light. Owners will build.

**Store and Residence (alts.)**, 1800 North Fifth street, Philadelphia, \$3,000. Architect, private plans. Owner, William G. Adams, 224 East Tabor Road, Philadelphia. General alterations. Owner will build.

**Residence**, 2409 Church street, Philadelphia, \$4,000. Architect, private plans. Owner, Aleck Jastrzebaski, 4539 Bermuda street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, electric lighting. Owner will build.

**Rooming House (alts.)**, 1312 Spruce street, Philadelphia, \$4,000. Architect, private plans. Owner, Joseph K. Seidle, on premises. Gen-

eral alterations and new hot water heating. Owner will build.

**Garage**, Northeast Corner Wakefield and Wister streets (rear), \$2,500. Architect, private plans. Owner, Louis Lombardi, 203 Wister street, Philadelphia. Stone, 1 story, 72x29 feet, slag roof, cement floors. Also (2) garages, stone, 1 story, 16x20 feet, \$1,000 each. Owner will build.

**Garage**, North side Mifflin street, East of Twenty-fourth street, \$2,500. Owners, Young Brothers, 2128 South Lambert street, Philadelphia. Brick, 1 story, 50x16 feet, 16x45 feet, 91x16 feet. Owner will build.

**Building (fire repairs)**, Byberry, Pa. Architect, Philip S. Johnson, 1713 Sansom street, Philadelphia. Owners, Philadelphia Institute for Feeble Minded, Byberry, Pa. Low bidders: C. H. Evans, 2315 Walnut street, Philadelphia, \$21,967; George H. Evans, 105 North Thirteenth street, Philadelphia, \$22,450. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, \$866. Heating, Osborne & Roan, 1033 East Tioga street, Philadelphia, \$3,800. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$798.

**School**, Merion and Girard avenues, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders: M. Melody & Sons, 1322 Race street, Philadelphia, \$449,000; McCloskey Co., 1620 Thompson street, Philadelphia, \$459,459. Plumbing, Faith & Son, 2429 Pennsylvania avenue, Philadelphia, \$20,998. Heating, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$50,700. Electric, J. M. Cummings & Son, 4526 Frankford avenue, Philadelphia, \$16,660.

**James Blaine School**, Thirtieth and Norris streets, Philadelphia. William Langhorne, 304 South Fiftieth street, Philadelphia, \$20,494. Plumbing, D. J. Keating, 2042 Rittenhouse street, Philadelphia, \$9,545. Heating, McClintock Brothers, 5216 Webster street, Philadelphia, \$499.

**I. Shepherd School**, Howard and Cambria streets, Philadelphia. Chancellor Day, 3504 Decatur street, Philadelphia, \$2,700; William Langhorne, 304 South Fiftieth street, Philadelphia, \$3,575. Heating, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$1,124. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$3,286.

**Taggart School**, Fifth and Porter streets, Philadelphia. E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, \$3,419; Carr & Courtney, Twenty-third and Green streets, Philadelphia, \$3,690. Plumbing, Daniel J. Keating, 2042 Rittenhouse street, \$6,098. Heating, Thompson Brothers, 520 Buttonwood street, Philadelphia, \$315.

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ty-first and Brown streets, Philadelphia; J. A. Cummings & Son, 4536 Frankford avenue, Philadelphia, \$3,128. McMichael School, Twenty-fifth and Fairmount avenue, Philadelphia; Mr. Goldblatt, Philadelphia, \$1,673. Shippen School, care of Board of Education, Nineteenth above Chestnut street, Philadelphia; Walker & Kepler, 531 Chestnut street, Philadelphia, \$1,438.

**Residences (62)**, Eleventh, between Chew and Grange streets, Philadelphia. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, A. Singer, 37 South Fifty-ninth street, Philadelphia. Brick, 2 stories, 16x42 feet, slag and tin roof, hardwood and pine floors, hot water heat, electric light, metal lath, tile work, enclosed porches, garages in basement, cement work. Owner taking sub-bids.

**Church Sunday School**, Oxford Pike, Akron and Dyer streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Frankford Methodist Episcopal Church, Rev. G. W. Sheetz, 1618 Foulkrod street. Stone, cut stone, cast stone, 64x61 feet, Sunday School, 2 stories and basement, 85x64 feet, slate roof, cement and maple floors, hollow tile, metal ceilings, iron work, tile work, electric light, steam heat. Architect taking bids due December 18th at noon.

**Manufacturing Building (add.)**, Northeast Corner Wilde street and Kains avenue, Philadelphia, \$14,000. Architects, Wilson-Ruff Co., Franklin Trust Building, Philadelphia. Owners, Repel-A-Rain Co., on premises. Brick, 1 story, 49 feet, 8 inches x 27 feet, 7 inches, slag roof, steel sash, steam heat, electric light. Architects will build.

## Contracts Awarded

**Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.**

**Bank**, 3160 Kensington avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Northeastern Title & Trust Co., on premises. Brick, cut stone, steel, 2 stories and basement, 43x42 feet, slag roof, pine floors, electric light, metal lath, terrazzo work, copper skylights, iron work. Contract awarded F. B. Davis & Son, 240 North Sixteenth street, Philadelphia.

**Alterations and Additions**, Southwest Corner Juniper and Chestnut streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, M. Spector, care of architect. Brick, reinforced concrete, cut stone, tile roof, composition and cement floors, plastering, tile and marble work, metal lath, bond, metal bulks, iron work, terra cotta (plumbing, heating, electric reserved and cabinet work reserved). Contract awarded Farrell Roth Co., 1624 Spruce street, Philadelphia.

**Factory**, Shellmere and Edmund streets, Holmesburg, Pa. Architect, private plans. Owners, Electric Dev. & Machine Co., on premises. Brick and steel, 1 story, 432x84 feet, slag roof (plumbing, heating, electric reserved), cement floors, rolled steel sash, bond. Contract awarded Franklin M. Harris, 1520 Parrish street, Philadelphia.

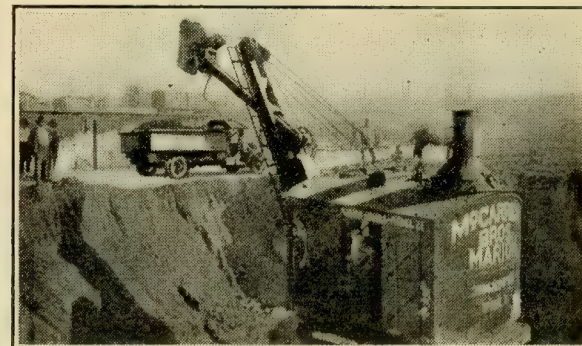
**Manufacturing Building**, Fifth and Bristol streets, Philadelphia. Architect, private plans. Owners, Brande & Smith, Eighth and Dauphin streets, Philadelphia. Brick, steel, concrete, 3 stories, 329x207 feet, slag roof, cement floors, elevators, iron work and stairs, rolled steel sash and skylights. Contract

awarded William Steele & Sons, 219 North Broad street, Philadelphia.

**Manufacturing and Storage Building (alts.)**, Northwest Corner Third and Spring Garden streets, Philadelphia, \$25,000. Architect, private plans. Owners, Spring Garden Realty Co., 1501 Walnut street, Philadelphia. Mill work, brick work, slag roof, steel sash, iron work, painting, glazing, plumbing, steam heat, hardware, electric work. Contract awarded to Curtis-Grindrod Co., 10 South Eighteenth street, Philadelphia.

**Factory (add.)**, 1523 Race street, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, John J. Griffith & Co., on premises. Brick, steel, cut stone, 1 story, 20x68 feet (plumbing, heating, electric reserved), slag roof, cement floors, roof ventilators, terra cotta. Contract awarded to Knox Landers, 1132 Vine street, Philadelphia.

**Store and Apartment (alts.)**, Sixty-third and Lansdowne avenue, Philadelphia, \$35,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert M. Greenfield; Fifteenth and Chestnut streets, Philadelphia. Brick work, concrete and cement work, metal ceilings, steam heat, plumbing, electric work, carpentry and mill work, plastering. Contract awarded B. Bornstein, 1319 Wingohocking street, Philadelphia.



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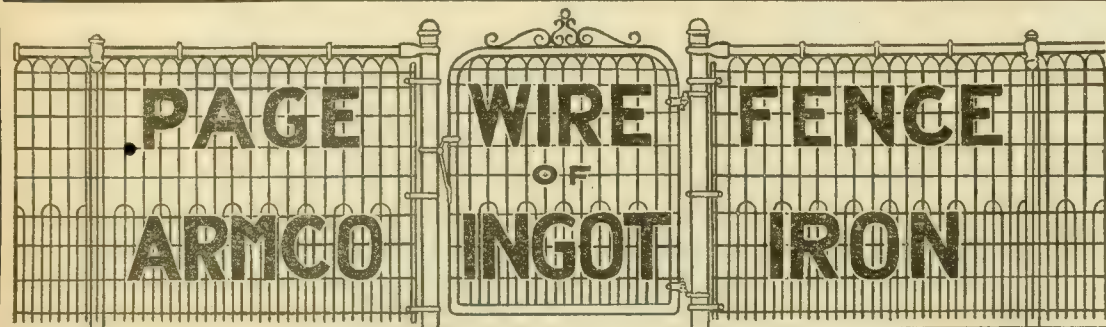
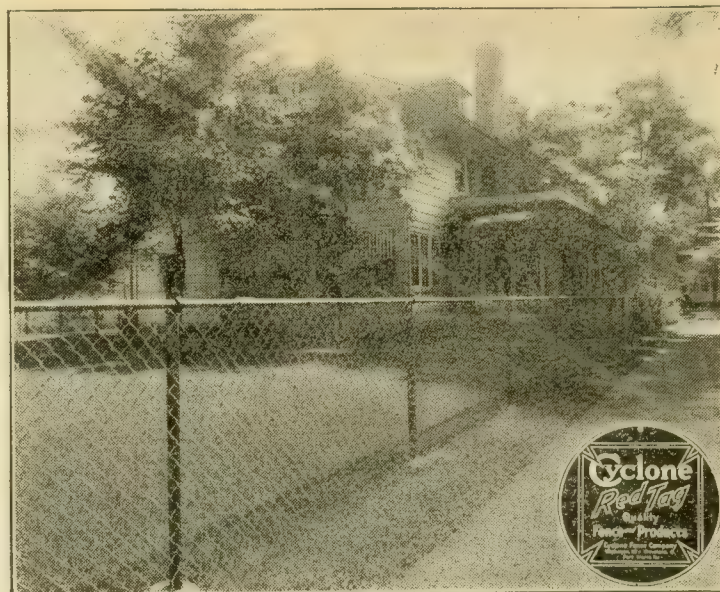
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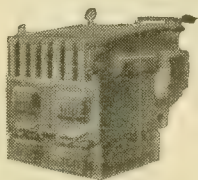
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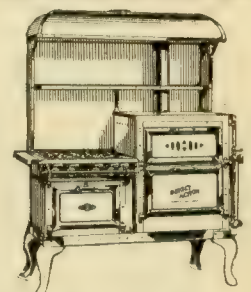
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**Garages (70)**, Southwest Corner Sixtieth and Springfield avenue, Philadelphia. Architect, E. A. Stopper, Fuller Building, Philadelphia. Owner, Joseph Connell, care of architect. Brick, 1 story, 8x17 feet, slag roof, cement floors, electric light. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

**New Bulks**, 706 South Broad street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, J. C. Kahn, Morris Building, Philadelphia. Quarry tile and marble work, plate glass, mill work, cellar door, steel work, flush bulks. Contract awarded J. Maurer & Co., 1304 North Second street, Philadelphia.

**Residences and Stores (2)**, 4606-08 Frankford avenue, \$12,000 each. Architect, David Levy, Real Estate Trust Building, Philadelphia. Owner, Isadore Milgram, 205 South Fifteenth street, Philadelphia. Brick, 2 stories, 16x61 feet, slag roof, hardwood and pine floors, steam heat, electric light. Contract awarded to S. H. Levin, 1631 South Fifteenth street, Philadelphia.

**Residences (2)**, South side Ellet street, East of Green street, \$11,000 each. Owners, Walker & Smith, Greene street and Cheltenham avenue, Philadelphia. Stone, 3 stories, 17x21 feet and 21x17 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to James Riley & Son, Forest avenue, Mt. Airy.

**Stores and Apartments (8)**, Northeast Corner Thirty-seventh and Chestnut streets, \$12,500. Architect, C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Joseph Rabinovitz, Shubert Building, Philadelphia. Brick, 2 and 3 stories, 30x150 feet, slag roof,

composition floors, vapor heat, electric light, tile and marble work, plate glass. Contract awarded to A. S. Shafer, 3639 Chestnut st., Philadelphia.

**Garage**, West side Fifty-seventh street, South of Haddington avenue, \$23,000. Owner, J. Prosper Eckert, 815 Commercial Trust Building, Philadelphia. Brick, 1 story, 49x216 feet, slag roof, cement floors. Contract awarded to B. W. Glover, 5300 Chestnut street, Philadelphia.

**Apartments and Stores**, Southwest Corner Broad and Wyoming avenue, Philadelphia, \$17,000. Architect, private plans. Owner, J. Allison Parker, on premises. Contract awarded Albert Dunlap, 7223 Oak avenue, Oak Lane, who is taking sub-bids on all lines.

**Store and Storage (alts. and add.)**, 144 North Twelfth street, \$8,575. Owner, Morris Brown, 4700 North Ninth street, Philadelphia. Brick, 2 stories add., 20x29 feet, general alterations. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

**Building (add.)**, 1229 North Third street, Philadelphia, \$3,600. Architect, private plans. Owners, Frank Schutes & Son, 1228 Germantown avenue, Philadelphia. Brick, 3 stories, 17x28 feet, slag roof, electric work. Contract awarded to A. Winan, 2608 North Fairhill street, Philadelphia.

**Garage (repairs)**, 2314 East Susquehanna avenue, Philadelphia, \$3,450. Architect, private plans. Owners, Schaeffer Brothers, on premises. General fire repairs. Contract awarded to A. R. Raff Cont. Co., 1635 West Thompson street.

**Store (alts.)**, Northwest Corner Walnut and Dock streets, Philadelphia, \$5,500. Architect, private plans. Owner, J. Wallace Hallowell,

113 South Broad street, Philadelphia. Light iron work. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

**Lumber Shed**, Northwest Corner Berks and Beach streets, Philadelphia, \$3,000. Owners, William M. Lloyd Co., on premises. Frame, 20x133 feet, slag roof. Contract awarded to E. E. Hollenback, 1804 Brandywine street.

**Tank**, Northeast Corner Delaware avenue and Bigler street, Philadelphia, \$5,000. Architect, private plans. Owners, Bisbie Linseed Co., on premises. Steel tank, 30x20 feet. Contract awarded to James Stewart & Co., 30 Church street, New York.

**Garage**, 1417 West Allegheny avenue, Philadelphia, \$4,000. Architect, private plans. Owner, Mrs. Amelia Blelock, 2015 North Ninth street, Philadelphia. Brick, 1 story, 21x40 feet, concrete roof and floor, electric work. Contract awarded to D. A. Adams, 2940 North Marshall street, Philadelphia.

**Office (add.) and Garage**, Northeast Corner Laurel and Penn streets, \$9,000. Architect, private plans. Owners, Watson Malone & Sons, Laurel Street Wharf, Philadelphia. Brick, 1 story add., 15x24 feet, 6 inches; garage, 1 story, 36x24 feet. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

**Tank Tower**, Northeast Corner Erie avenue and F street, Philadelphia, \$2,500. Architect, private plans. Owners, Amos Hall & Sons, on premises. Steel tank tower. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

**Garage**, 908 North Sixty-third street, Philadelphia, \$3,250. Architect, private plans. Owner, George Werner, on premises. Brick, 1 story, 20x29 feet, slag roof cement floors. Contract awarded to George P. Clayton 1819 North Twentieth street.

**Residence and Store**, Northwest Corner Forty-third and Westminster avenue, \$3,000. Ar-

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chitect, private plans. Owner, S. Cotler, 437 North Sixty-third street, Philadelphia. Brick, 1 story front add., 16x8 feet. Contract awarded to S. Lazarus, 4916 Parkside avenue, Philadelphia.

**Store and Residence (add.)**, 1131 South Eighth street, Philadelphia, \$2,500. Architect, private plans. Owner, Joseph Gavin, 326 North Thirty-ninth street, Philadelphia. Brick, 2 stories add., 16x17 feet. Contract awarded to A. MacTavish, 2026 Waverly street, Philadelphia.

**Manufacturing Building (repairs)**, 1514-20 North Thirteenth street, \$2,900. Architect, private plans. Owner, H. K. Thomas, on premises. General fire repairs. Contract awarded to Frank G. English & Son, 1608 North Carlisle street.

**Manufacturing Building (add.)**, Northwest Corner J and Ontario streets, \$3,000. Owner, William Brown & Co., on premises. Brick tank support. Contract awarded to Harry Brocklehurst, 512 West Norris street.

**Garage**, near Northwest Corner Fifty-fourth and Jefferson streets, Philadelphia, \$2,400. Architect, private plans. Owners, Mulconray Co., on premises. 1 story, 50x50 feet, cement floors. Contract awarded to John McShain, 1610 North street, Philadelphia.

**Store and Residence (alts.) and Garage**, Northeast Corner Twenty-second and Nicho-

las street, Philadelphia, \$3,500. Architect, private plans. Owner, Edward F. Berkhoff, 1631 North Twenty-second street, Philadelphia. General alterations. Garage, brick, 1 story, 14x25 feet. Contract awarded to M. Glasshofer, 529 Morris street, Philadelphia.

**Residence and Office (add.)**, 56 West Cheltenham avenue, \$2,000. Architect, private plans. Owner, Reginald Jordan, 5610 Chester avenue, Philadelphia. Brick, 1 story, 18x10 feet, slag roof. Contract awarded to William F. Roth, Jr., 4215 Pine street, Philadelphia.

**Residence (alts.)**, 2020 Pine street, Philadelphia, \$2,000. Architect, private plans. Owner, Alex. L. Crawford, on premises. General alterations. Contract awarded to Warren E. Biscoe, 3946 Baring street, Philadelphia.

**Church (alts.)**, Northeast Corner Eighth and Wolf streets, Philadelphia, \$2,500. Owners, Associated Telmund Israel, on premises. General alterations. Contract awarded to Frank Cohen, 909 Vine street, Philadelphia.

**Alteration to Residence, Stores (2) and Offices**, Forty-ninth and Baltimore, Philadelphia. Architect, private plans. Owner, J. W. Boone, on premises. Brick, 2 stories, 38½x19 feet, tin roof, pine floors, gas radiation, electric light, tile work, plumbing, flush bulks, galvanized iron work. Contract awarded J. Maurer & Co., 1304 North Second street, Philadelphia.

Building, Harrisburg. Owners, Market Street Baptist Church, care of architects. Construction undetermined, 1 story and basement, 60x80 feet. Sketches in progress.

**Residence**, Front street, Harrisburg, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owner, S. G. McNees, 315 Walnut street, Harrisburg, Pa. Sketches in progress.

**Store (alts. and add.)**, 652 Penn street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, David A. Harris, on premises. Brick, concrete. Sketches in progress.

**Church (alts.) and Sunday School**, Lansford, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Holy Trinity Lutheran Church, Rev. C. Fegley, Lansford, Pa. Frame, 1 story and basement. Preliminary plans in progress.

**Church and Sunday School**, Girardville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Vincent's Roman Catholic Church, Rev. Ignatius Valancinas, Girardville, Pa. Steel, frame, brick, hollow tile, 2 and 3 stories, 150x50 feet, pine floors, slate or asbestos roof, hollow tile, roof ventilators, steam heat, electric light, tile work. Plans in progress.

**Bank (alts. and add.)**, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Keystone National Bank, J. Barbey, 622 Penn street, Reading, Pa. Brick, limestone, 1 story, 30x75 feet, marble floors, hollow tile, tile and marble work, general alterations, bank fixtures, ornamental iron work. Plans in progress.

**Residence**, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, William Eckert, care of architect. Stone, stucco, 2½ stories, 30x42 feet, slate roof, hardwood floors, water heat, electric light, tile work. Plans in progress.

**Bungalows (5)**, Morton, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, Donald Dugan, care of architect. Frame and stucco, 1½ stories, 25x46 feet, asbestos shingle roof, pine floors, pipeless heat, electric light, plumbing. Plans in progress. Ready for sub-bids in one week.

**Residence**, Seventeenth and Foster streets, Harrisburg, Pa. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owner, Charles Appleby, 99 North Eighteenth street, Harrisburg, Pa. Stone and stucco, 2½ stories, 30x42 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

## PENNSYLVANIA

# Construction News

**Residence**, St. Davids, Pa. Architect, DeArmond, Ashmead and Brickley, Franklin Trust Building, Philadelphia. Owner, A. A. Harvey, St. Davids, Pa. Electric light, steam heat extension, slate roof, tile work, carpentry and millwork, plumbing, plastering, painting, hardware. Architect have received sub-bids.

**Residence**, Villa Nova, Pa. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, R. R. Titus, Jeffersonville, Pa. Plans in progress. Too early for details.

**Memorial Hospital Building**, West Chester, Pa., \$500,000. Architects, York & Sawyer, 100 East Forty-second street, New York City. Owners, Chester County Hospital, West Chester, Pa. Brick, stone, concrete and steel, 2 stories and basement, 50x200 feet. Plans in progress.

**Church**, Kennett Square, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Kennett Square Baptist Church, Kennett Square, Pa. Plans in progress.

**Church**, Norwood, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Norwood Methodist Church, Norwood, Pa. Plans in progress.

**Church (alts. and add.)**, Parsonage and Sunday School, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, First Methodist Episcopal Church, Rev. B. Harle, care of architect. Stone, brick, 1 and 2 stories, 50x100 feet, 35x70 feet, 80x100 feet, slate roof, hardwood and pine floors, city heating, electric lighting, tile work. Plans in progress.

**High Schools (2)**, East End and West End, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, City of Lancaster, School District, Lancaster, Pa. Steel, stone, granite, brick, 3 stories, 211x149 feet, cement and maple floors, hollow tile, electric light, metal lath, terra cotta, iron stairs, ornamental iron work. Plans in progress.

**Church**, Market street, Harrisburg, Pa. Architects, Lawrie & Green, Commonwealth



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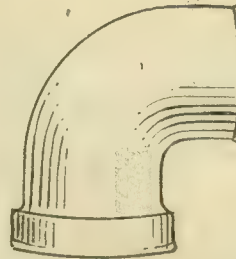
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Church, Camp Hill, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Presbyterian Church, care of architects. Stone, 1 story and basement, 100x100 feet, slate roof, concrete floors,

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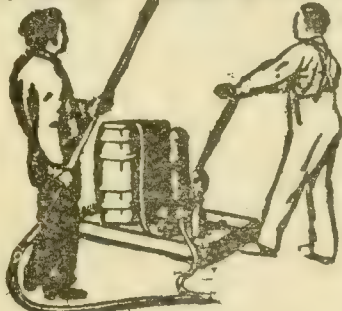
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hollow tile, steam heat, electric light, metal lath, tile work. Architect will be ready for bids in about ten days.

**Bungalow**, Robbins and Woodland avenue, Lawndale, Pa. Architect, Chris H. Fries, 8237 D street, Fox Chase, Pa. Owner, John McBlaine, Levick street, Lawndale, Pa. Brick, 1½ stories, 35x50 feet, garage, 1 story, 14x20 feet, hot water heat, electric light, tile work, slate roof, pine and oak floors. Ready for bids in a few days.

**Inn**, Mechanicsburg, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, J. Devers, Mechanicsburg, Pa. Cinder block and stucco, 2½ stories, 35x50 feet, shingle roof, pine floors, steam heat, electric light, kitchen equipment. Plans in progress. Will be ready for bids in ten days.

**Church**, New Freedom, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owners, St. John's Lutheran Church, care of architects. Brick, Indiana limestone, 1 story and basement, 112x75 feet, slag roof, hardwood floors, steam heat, electric light. Architects ready for preliminary bids.

**Inn**, Lancaster Pike, near Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, R. C. Nunnacher, 599½ North Plum street, Lancaster, Pa. Cinder block and stucco, 2½ stories, 35x50 feet, shingle roof, pine floors, steam heat, electric light, kitchen equipment. Architect ready for bids.

**Garage and Repair Shop**, Prangly and Ruby streets, Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, P. S. Devers, 228½ East Walnut street, Lancaster, Pa. Steel, concrete and cinder block, 1 story, 55x207 feet, asphalt roof, concrete floors, steam heat, electric light, rolled steel sash, fire doors. Architect ready for bids.

**Home**, Shiremanstown, Pa. Architects, Lawrie & Green, Commonwealth Building, Harrisburg, Pa. Owners, Methodist Home for Children, care of Dr. E. R. Heckman, 2116 North Third street, Harrisburg, Pa. Fireproof, 3 stories, 70x80 feet, slate roof, hardwood floors, hollow tile, vapor heat, electric light, metal lath, tile work, iron stairs. Architects taking bids due December 21st.

**Instruction Building**, Bryn Mawr, Pa. Architects, Alden & Collins, 75 Newberry street, Boston, Mass. Owners, Baldwin School, Bryn Mawr, Pa. Stone, brick, limestone, steel, 3 stories and basement, 147x74 feet, wing 64x49 feet (plumbing, heating, electric separate), slate and slag roof, cement and maple floors, metal lath, hollow metal skylights, tin-clad and kalamein doors, steel stairs, iron work, waterproofing, dumb waiters. Architects taking bids due December 31st.

**Hospital (add.)**, Walnut street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster

Building, Reading, Pa. Owners, St. Joseph's Hospital, Reading, Pa. Brick, steel, concrete, 6 stories, 45x150 feet, asphalt roof, composition, tile and terrazzo floors, hollow tile, (2) elevators, roof ventilators, waterproofing and dampproofing, terra cotta (plumbing, heating, electric work and elevators reserved), metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, fire doors, bond, iron stairs, ornamental iron work. Architect taking bids due December 19th.

**Majestic Theatre and Hotel**, Broad street, Tamaqua, Pa. Architect, W. H. Lee, 1505 Race street, Philadelphia. Owner, P. J. Higgins Hotel Co., Tamaqua, Pa. Architect taking bids on plumbing, heating, electric work due December 21st.

**Residence and Garage**, East Nineteenth and Providence avenue, Chester, Pa. Owner, Simon Bruner, care of architect. Brick, cut stone, steel, 2½ stories, 53x22 feet, slate roof, oak and composition floors, hot water heat, electric light, tile work, metal lath, bond, iron work. Architect taking bids due as soon as possible.

**Telephone Building (alts. and add.)**, 31-33 North Fifth street, Reading, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, 4 stories, 47x30 feet, third and fourth floors addition, 137x30 feet, steam heat, electric light, slag roof, cement floors, bond. Architect taking bids due December 19th.

## Pennsylvania Contracts Awarded

**Building (alts. and add.)**, Kingston, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company of Pennsylvania, Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, 2 stories and basement, 151x30 feet, slag roof, cement floors, hollow tile, waterproofing and dampproofing, steam heat, electric light, metal lath, marble work, sheet metal sash, hollow steel doors, bond, kitchen equipment. Contract awarded Sheppard Const. Co., Wilkes-Barre, Pa.

**Residence**, Academy Manor, Harrisburg, Pa. Architect, C. J. Lappley, Commonwealth Building, Harrisburg, Pa. Owner, Charles Stroh, 222 Market street, Harrisburg, Pa. Stone, 2½ stories, 28x60 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to W. S. Miller, Telegraph Building, Harrisburg.

**Cottage**, East York, Pa. Architects, Hamme & Witman, City Bank Building, York, Pa. Owner, W. P. Minich, York, Pa. Stucco, cin-

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der block, 1 story, 45x43 feet, asphalt shingle roof, hardwood floors (heating reserved), electric light. Contract awarded to C. H. Boyer & Son, York, Pa.

**Residence**, Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, H. H. Sebonthaeur, Lancaster, Pa. Tapestry brick, 2½ stories, 30x50 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster, Pa.

**Residence (alts. and add.)**, Elkins Park, Pa. Architect, W. Ellis Groben, Chelton and Lawnton avenues, Philadelphia. Owner, George F. Shuster, on premises. Painting, glazing, mill work, electric light, hot water heat. Contract awarded to Gilbert S. Smith, Sixty-ninth avenue, Oak Lane, Philadelphia.

## New Jersey Construction News

**Warehouse**, New York and Baltic avenues, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Seashore Supply Company, A. J. Hepburn, New York and Mediterranean avenues, Atlantic City, N. J. Frame and concrete, 2 stories, 50x80 feet. Plans in progress.

**Store Building**, Bridgeton, N. J., \$40,000. Architect, Walter Custer, Bridgeton, N. J. Owner, Max Goldberg, Bridgeton, N. J. Brick, steel, 2 stories, 75x100 feet, slag roof, pine floors, steam heat, electric light, tile and marble work metal bulks, metal ceilings. Plans completed. Architect ready for bids due December 26th.

**School**, Allentown, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Borough of Allentown, E. H. Porter, Allentown, N. J. Brick, 2 stories, 116x60 feet, slag roof, yellow pine floors, hollow tile, safety treads, roof ventilators, metal lath, steam heat, electric light, bond. Owners taking bids due December 19th.

**School**, Westville, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Depford Township, A. C. Clement, Westville, N. J. Brick, 1 story and basement, 98x68 feet, yellow pine and cement floors, safety treads, roof ventilators (heating, electric work reserved), metal lath, hollow metal skylights, bond. Owners taking bids due December 14th.

**Administration Building**, Hightstown, N. J. Architects, Rich & Matheseus, 320 Fifth avenue, New York City. Owners, Peddie School, Hightstown, N. J. Steel, brick, granite, blue-stone, cast and cut stone, reinforced concrete, 3 stories and basement, 172x80 feet (plumbing, ventilating, electric separate), metal lath, tile, marble and terrazzo work, kalamein and hollow metal doors, iron work and stairs, hollow tile, granolithic and concrete floors, slag roof, florotyle, bronze work, alberebe work. C. W. McCutchin, chairman of Building Committee, Peddie School, taking bids due December 15th.

**Hospital (add.)**, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Brick, 1 story, 15x18 feet, tin roof, composition floors, electric light. Architect taking bids due December 14th.

**Small Pox Hospital (add.)**, Municipal Colony, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Frame, 2 stories, 40x100 feet, slate roof, composition floors, steam heat, electric light. Architect taking bids due December 14th.

**Doctors' Cottage**, Municipal Colony, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Brick, 2 stories, 40x26 feet, slate roof, pine floors vapor heat electric light, tile work. Architect taking bids due December 14th.

**Residence (alts. and add.)**, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, R. J. Carey, 179 Cooper street, Trenton, N. J. Brick, stucco, 2½ stories, 17x60 feet, slag roof, pine floors, hot water heat, electric light, metal lath, tile work, general alterations. Lowest bidder: Harrison & Fisher, 35 Perdicaris street, Trenton, \$10,322.

**School**, Twenty-ninth and Mickle streets, Camden, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, Cramer School, A. Austermuhl, secretary, Camden, N. J. Owners taking bids due December 17th, 2 P. M.

## New Jersey Contracts Awarded

**Buildings**, Salem, N. J., \$1,250,000. Architect, private plans. Owners, Congoleum Co., Inc., Salem, N. J. Brick and steel, 3 stories, 65x100 feet, 1 story, 103x120 feet, slag roof, plank floors, rolled steel sash and skylights, fire doors. Contract awarded Austin Co., Jefferson Building, Philadelphia.

**Factory**, Bridgeton, N. J. Architect, Walter Custer, Bridgeton, N. J. Owners, Bridgeton Ind. Development Co., Bridgeton, N. J. Brick, steel, 1 story, 50x154 feet, slag roof, cement floors, steam heat. Contract awarded to George Maier & Brothers, Bridgeton, N. J.

**Stores (5) and Apartment Building (6)**, Pine avenue, Wildwood, N. J. Architects, Byron H. Edwards and Alfred Green, 34 South Seventeenth street, Philadelphia. Owner, S. Lotuff, care of architect. Brick, stucco and concrete block, 2 stories, 65x100 feet. Contract awarded T. J. McGarry, Ocean City, N. J.

**Alterations and Additions**, 505-11 Arch street, Camden, N. J. Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owner, C. Cutler, care of architect. Brick, slow burning, steel, 2 stories, 66x159 feet, irregular, slag roof, pine floors, metal lath, fire doors, ornamental iron work. Contract awarded Bazahler & Schalke, 1183 Jackson street, Camden, N. J.

## Delaware Construction News

**Bank**, Smyrna, Delaware. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Fruit Growers' National Bank, care of architect. Brick, limestone, structural steel, 3 stories, 40x58 feet, slag roof, composition floors, vapor heat, electric light, tile and marble work, vault, bank fixtures, ornamental iron work. Preliminary plans in progress.

**Schools (2)**, site undecided, Wilmington, Del., \$500,000 each. Architects, Guilbert & Betelle, 665 Broad street, Newark, N. J. Owners, Delaware School Auxiliary Association, Dupont Building, Wilmington, Del. Brick. Architects selected. Owners will take general bids. Too early for details.

**Grade School**, Clayton and Maple avenue, Wilmington, Del., \$600,000. Architects, Guilbert & Betelle, 665 Broad street, Newark, N. J. Owners, Delaware School Auxiliary Association, Dupont Building, Wilmington,

Del. Brick. Sketches in progress. Too early for details. Owners will sub-let.

**Parochial School**, Harrison and Lindley avenues, Wilmington, Del. Architects, Gleason, Mulrooney & Burke, 404 South Broad street,

Catholic Church, Rev. J. S. Gulk, Wilmington, Del. Stone, 1 story and basement. Preliminary plans in progress.

**Building (alts. to factory)**, Southeast Corner Fifth and French streets, Wilmington, Del. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, E. Sutro & Sons Co., Wilmington, Del. Remodeling basement into cafeteria, remodeling fire tower, general alterations. Owner taking bids due December 13th.

## Delaware Contracts Awarded

**School**, Newark, Del. Architects, Guilbert & Bettelleff 665 Broad street, Newark, N. J. Owners, Board of Education of Newark, Del., Dr. W. H. Steel, president, Newark, Del., and Delaware School Auxiliary Association, Dupont Building, Wilmington, Del. Brick, concrete, semifireproof, 2 and 3 stories, 170x118 feet (plumbing, heating, electric work separate bids). Contracts awarded: General, Northeastern Const. Co., Lexington Building, Baltimore, Md., \$181,000. Plumbing, heating and ventilating, T. T. Weldin, 916 Orange street, Wilmington, \$43,160. Electric work, E. F. Higgins & Co., 843 Tatnall street, Wilmington, Del., \$4,476.

**Parish House (alts. and add.)**, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Westminster Presbyterian Church, care of architect. Stone, 2½ stories, 44x100 feet, hot water heat, electric light, tile roof, hardwood floors, tile and marble work. Contract awarded to E. L. Johnson, 1316 Clayton street, Wilmington.

## Miscellaneous Construction News

**Church and Sunday School**, Sixteenth street, Washington, D. C. Architects, Charles W. Holton & Son, Witherspoon Building, Philadelphia. Owners, Hamline Methodist Episcopal Church, Washington, D. C. Stone, 1 and 2 stories, slate roof. Plans in progress.

## Miscellaneous Contracts Awarded

**War House**, Camp Holabird and B. & O. R. R., Baltimore, Md. Owners, Standard Sanitary Mfg. Co., Baltimore, Md. Architects, S. Doescher & Son, Farmers' Bank Building, Pittsburgh, Pa. Reinforced concrete, 2 stories, 350x130 feet, concrete floors, miscellaneous iron excavating, reinforced concrete footings and foundation walls for following buildings: Machine shop, blower house, clearing house, slush house, comfort station, power house, enamel shop. Contract awarded B. A. Groak Const. Co., 847 West North avenue, Pittsburgh, and care of Fleishman Co. Job, Twentieth and Venango streets, Philadelphia. Reinforced steel, 1,200 tons, American Steel Co., 10 South Eighteenth street, Philadelphia. Structural steel, 3,700 tons, Fort Pitt Bridge Works, Pittsburgh, Pa.

**Plant (7 buildings)**, Amcelle, Md., near Cumberland, \$1,500,000. Architect, private plans. Owners, American Cellulose & Chemical Mfg. Co., on premises. Brick and steel,



steam heat, electric light, slag roof, concrete floors, elevators, rolled steel sash and skylights, floor hardener, iron work, 1 and 2 stories, 460x135 feet, 280x135 feet, 75x75 feet, 75x100 feet, 40x60 feet, 60x250 feet, 50x100 feet. Contract awarded Austin Co., Jefferson Building, Philadelphia.

Quarterly meeting of Philadelphia Builders' Exchange and Employers' Association in the Gold Room, Hotel Adelphia, Tuesday evening, December 18th, 1923, at 6.00 P. M.

## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 27, 1923. Sealed Proposals will be opened in this office at 3 P. M., December 26, 1923, for the construction, including mechanical equipment of a one-story and basement brick extension, approximately 42x110 feet in size, and a one-story wood frame mailing vestibule, approximately 24x39 feet in size, at the United States Post Office at Poughkeepsie, N. Y. Drawings and specifications may be obtained from the custodian of the building at Poughkeepsie, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 788)

being the result of an average of ten years.

"Those are some of the things I would say can be remedied," said Mr. Shreve. "The figures have no relation one to another, so far as totals go. They only show tendencies. It looks as if somebody was getting busy this Fall to do some work this Winter.

"It is not only ahead of us for this Winter, but it has been done during the Winters that are passed, and I am going to put my little testimonial in on the side of one where we have actually effected a program and are now under way.

"There was a saving of \$87,710 on this job, the building work of which cost \$750,000," said John Lowry, Jr., showing a picture of a well known New York apartment house, built by his company during the Winter of 1922-23.

"To offset that, the expenditures for Winter construction were a total of \$3,863 or about one-half of 1 per cent. of the total cost of the job." This extra cost was for the protection of workers and materials and supplying the necessary heat.

"If you consider the bricklayer production in the Summer of 1922—100 per cent.—in the erection of this job during the Winter of 1922-23, the bricklayer production was 109 per cent. or 9 per cent. more than the Summer of 1922.

"Comparing this with 1923, this last Summer, the bricklayer production was 91 per cent. In other words, on this job carried on during the Winter, I produced 18½ per cent. more brick per day

per man than I was able to do this last Summer on brick work.

"Bricklayers working on the job got \$10 a day. The payroll for the entire job was \$28,150 for bricklayers.

"If it had been continued this last Summer of 1923, the dropping off in production, or in efficiency, if you so choose to call it, would have added \$5,630 to the cost of bricklaying alone. If you consider the bonus award of \$4, that is, \$14 per man today, the bonus would have cost \$11,260 more. In other words, the brick work on this job would have cost \$16,890 in addition to the \$28,150 as actually paid for bricklayers.

"The payroll on this job for bricklayers, carpenters, labor and engineers amounted to \$130,667. If it had been done last Summer, rather than the last Winter, the dropping off in production and the bonus award would have added \$25,680 to my payroll.

"In addition to the saving in labor, the saving on purchases of materials in sub-contracts on this job amounted to \$16,030 over the prices I was able to procure in the Summer of 1922. In other words, between labor and the purchase of materials and sub-contracts there was a saving of \$87,710 on this job the building work of which had cost \$750,000.

"To offset that, the expenditures for Winter construction were as follows: Temporary protection to labor and material, \$871; tarpaulins cost \$667, with a salvage of \$442, net cost \$225; temporary heat, salamanders, cost \$668; salamanders, \$302; coke, \$302; boiler attendants, labor, \$1,036; coal for boiler heating, \$150; temporary lighting, labor and service, \$196; snow clearing, \$111; a total of \$3,863, or about one-half of 1 per cent. of the total cost of the job.

"Bear in mind that the labor saving was \$25,680 and the material and sub-contract saving was \$62,000 to offset \$3,863 Winter protection cost.

"Charles M. Schwab realized the value of Winter construction. As a matter of fact, some time ago he gave me an order to build half a million dollars' worth of buildings.

"They could be built next Summer just as well as this Winter. He required that they be finished on Sept. 1, 1924. The work is in course of construction now. I have some of it enclosed and some of it in the open. I will keep my gang steadily employed the Winter through, in bad days working inside and on good days on the outside. Through this means I will save many thousands of dollars in the course of construction.

"Build in Winter and keep the architect, builder and sub-contractor and labor busy. It will better balance up the industry."

That working with concrete during the

cold season is practical from every standpoint was explained by W. J. Barney, President of the Barney-Ahlers Construction Company. He placed himself on record that "more Winter construction is the acknowledged remedy for seasonal unemployment in the building industry."

"You have been told forcibly of the social and economic evil of seasonal unemployment for the carpenters, the bricklayers, in fact, for all those who directly do the work of our industry," said Mr. Barney "and to many this problem of seasonal employment seems to be solely a picture of its hardship to the mechanics and workers in the various trades.

"This is but the sharp foreground of the picture: its larger background shows that where the mechanic is unemployed also is unemployed the contractor, material manufacturer, the architect and all others involved in our great industry—we one and all suffer from this curse of seasonal variation in the volume of our business, and finally in the horizon you see the public paying during the period of intense activity higher wages, higher prices and larger fees to compensate for the period of enforced idleness, during which the mechanic must live on his earnings' savings, the contractor carry his overhead, the architect maintain his staff and the material manufacturer offset his plant investment and factory overhead.

"In short, this is not a problem whose solution will be beneficial to mechanics alone, but is one in which all sections of this Building Congress are vitally interested, and to which they could all well afford to contribute liberally for its solution through the more even distribution of construction throughout the entire year.

"I have had our estimating department take from their files typical estimates, and using these various factors, the same building would have been estimated by us in August at \$208,000 and estimated by us today for Winter construction at \$203,000, showing a saving to the owner of at least \$5,000, or 5 per cent., this including all cost of Winter protection. Therefore under present labor and material conditions, it is certainly conservative to say that Winter construction costs no more than Summer work."

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.



REPORT OF PROCEEDINGS OF  
MEETING OF APPRENTICESHIP  
COMMITTEE, AMERICAN  
CONSTRUCTION COUN-  
CIL HELD AT HOTEL  
STATLER, BUFFA-  
LO, N. Y., DEC.  
5, 1923

A national program on Apprenticeship for the construction industry was launched today by the Apprenticeship Committee of the American Construction Council at the first meeting of the Committee, held at Buffalo, Dec. 5, 1923. This Committee is composed of representatives of all elements of the construction industry throughout the entire country, including employers, manufacturers and professional bodies, as well as the various trades and crafts representing labor in the industry. Forty persons representing all of these groups, were in attendance.

The purpose of the Committee recently created by the American Construction Council, is to further the development of apprenticeship in the construction industry.

The meeting opened with a message from the President of the Council, Franklin D. Roosevelt, of New York, read by Dwight L. Hoopingarner, the Executive Secretary, calling attention to apprenticeship as "one of the great problems in American industry today," and pledging the full support of the Council in the task of finding a solution of this problem. Mr. Roosevelt emphasized the duty before the Council of "arousing the country to the need of placing skilled manual labor on a par with the clerical and non-manual occupations in public esteem," and the necessity "for more appreciation of the dignity of Craftsmanship."

Mr. D. Knickerbacker Boyd, the Executive Vice President of the Council, then spoke, emphasizing the importance of the problem before the committee.

Mr. J. C. Wright, Director of the Federal Board for Vocational Education, welcomed the committee in its efforts, and pledged the support of his Board in every way within its power.

The best wishes and cordial support of the Secretary of Labor, Hon. James I. Davis, who is chairman of the Federal Board for Vocational Education, were transmitted to the Committee by Thomas J. Williams, of the United States Department of Labor.

The Secretary of Commerce, Hon. Herbert Hoover, sent a telegram extending his greetings to the committee in "coming with one of the most difficult problems that faces the country today," stating that there is no solution except by co-operation of the employer and la-

bor which is the purpose of the committee. Mr. Hoover said further: "It is my hope that the Department of Commerce will be able to give active support to such constructive measures as may be agreed upon by all groups represented in the Council."

The Committee's chairman, Mr. F. W. Walker, Secretary of the Associated Tile Manufacturers of Beaver Falls, Pa., in his opening remarks pointed out the necessity for a thorough grounding in fundamentals and training for permanency in all apprenticeship work.

John Donlin, President of the Building Trades' Department of the American Federation of labor, proposed a nationwide survey of apprenticeship needs in the construction industry, and pledged the co-operation of labor in training a sufficient number of apprentices to meet these needs.

A national survey of apprenticeship needs, and distribution of labor in the construction industry was authorized and instructed to be carried out as the first essential step in the program. Also an exhaustive study of instructional facilities and standards for apprentice training throughout the country in the construction crafts was specially provided for. Arrangements were also made to set in motion machinery for handling the additional phases of the problem such as development of craftsmanship, providing employment for apprentices, and the like.

To carry forward its program the committee directed, by resolution, the appointment of four sub-committees: first, a general executive committee; second, a committee on survey of apprenticeship needs and distribution of labor; third, a committee on instructional facilities and standards, and fourth, a committee on finance.

Mr. John W. Cowper has already accepted the Chairmanship of the Committee on Finance, and a definite plan to raise funds to carry on the apprenticeship movement in a large way has already been put in motion. The personnel of the other committees will be announced shortly.

Among the speakers were John W. Cowper, of Buffalo, President of the Associated General Contractors of America; Fred F. Moran, of the New York Apprenticeship Commission; C. A. Prosser, Director of the Dunwoody Institute; Thomas R. Preece, First Vice President of Bricklayers', Masons' and Plasters' International Union of America; George Dautel, of the Mason Contractors Association, Cleveland; Wharton Clay, Commissioner of Associated Metal Lath Manufacturers Chicago; Edward McDonnell of the Contracting Plasterers' International Association, Detroit; W. W. Charters of the University of Pittsburgh; John F. Morris, of the Carnegie Insti-

tute of Technology; E. E. Bowman, of the Trade Extension Bureau, Evansville, Ind.; L. S. Hawkins, of Chicago, Ill.; G. M. Bugniet, of the International Brotherhood of Electrical Workers, Washington; James Smith, of the Sheet Metal Workers' International Association, Brooklyn; James G. Higgins, of the United Association of Journeymen Plumbers, Brooklyn, N. Y., together with others representing employers, manufacturers, labor and educational bodies.

The American Construction Council itself is the national body representative of all elements in the construction industry including contractors, labor, architects, insurance and real estate interests, Chamber of Commerce, Public Utility Construction Departments, State, Federal and Municipal officials interested in construction, Associations of Builders' Exchanges and of Building Trades employers and similar federations of building interests, and the public.

The officers of the Council are, in addition to Franklin D. Roosevelt, President; Mr. D. Knickerbacker Boyd, of Philadelphia, Executive Vice President; Jos. H. Alexander, Cleveland, Vice President; John E. Lloyd, of Philadelphia, Vice President; John B. Larner, of Washington, D. C., Treasurer; Wright D. Goss, of New York City, Assistant Treasurer, and Dwight L. Hoopingarner, of New York City, Executive Secretary.

#### THE CHIMNEY—ITS DECORATIVE VALUE AND EFFICIENCY

The outside chimney is one of the decorative features of certain types of house, adding a touch of color, breaking the wall surface and giving a shadow where it is effective. Care should be taken, however, that while serving its decorative purpose the efficiency of the chimney itself is not diminished.

It is easy to see that, if the outside of the chimney is cold and the inside several degrees warmer, this condition may affect the hot gases seeking to escape through the flue. Those on the outside wall cool faster than on the inside, and drop back slightly, causing a small riot among the gases in the flue, and the passage out is stopped or slowed up, quite as really as with a material obstruction. In cold climates the outside chimney should be double walled, with an airspace, up to the eaves, if the usefulness of the chimney is not to be impaired. Above the roof all walls are outside walls, and while heat may be lost there is not the interference with the draft.

The draft or drawing power of a flue, as any one knows who stops to think about it, is due to the tendency of hot gases to rise. Gases expand with heat,



the tiny particles separate and become farther apart; hot gases are therefore lighter than cold gases. Since all gases are, comparatively speaking, perfectly fluid, the lighter, warmer, volumes rise and the cooler and heavier volumes fall, an interchange due to gravity. It can easily be seen, therefore, that a protected chimney that keeps the gases from losing their heat as they pass up the chimney will produce a better draft than one which is not well protected and permits the gases to lose their heat and drop back. That is to say, an interior chimney one running up through the inside of the house, will give more uniform draft than one built up as a part of the outside wall, unless it is protected.

In chimney operation, height produces draft and net cross-sectional area gives capacity. That is to say, the higher the chimney, the greater the "pull" on the chimney gases and the less the danger of smoking at the furnace or fireplace. Also, the larger the net area of the chimney, the more coal may be burned in a given time without choking the chimney enough to kill the draft. These two factors, height and area, are inter-dependent and each should be considered with the other.

#### *Chimney Height*

The least height of a chimney, for residences, is variously stated from 30 to 35 feet, according to James D. Hoffman, of Purdue University, in the Heating and Ventilating Magazine. Chimneys less than 30 feet high are likely to be erratic in their action. The furnace codes approved by the various engineering societies interested in furnace heating give as a least value 26 feet above the furnace grate, which, to say the least, should be considered a minimum in all cases.

#### *Cross-sectional Area*

In the average residence the cross-sectional area more frequently causes trouble than the height. The ideal section for any air duct is a round one. This does not work in very well with the brickwork, however, and a square section should be approached as nearly as possible, keeping in mind that whatever shape is adopted, it must fit the usual sizes of bricks.

In practice, no chimney flue should be made of less internal area than an 8-inch round or an 8 by 8 inch, and in moderate sized houses the working conditions of the chimney are improved if this is enlarged to 8 by 12 inches.

There is a dead zone next to every frictional surface—and that next to an ordinary brick wall is extravagantly large,—which is ineffective as free area. The gases moving along such a surface do not slide but roll and tumble, thus farther restricting the free passage up the chim-

ney. In a chimney having a thin rough flue, this neutral zone may be sufficient to practically nullify the entire draft area.

One prominent authority states that this zone extends a distance of 2 inches or more from each brick surface toward the center of the chimney.

#### *Chimney Lining*

All chimneys should be lined with hard-burned flue-tile lining throughout the entire length of the chimney, the tile to be not less than  $\frac{3}{4}$ -inch thickness. This is especially necessary if the chimney is built of a single thickness of brickwork or of a cement block construction. There are two reasons for this. The smooth interior of the tiles eliminates a large amount of the friction usually found between the moving column of gases and the inner surface of the brickwork, and, in addition, tiles are a safeguard against fire, since they cover up any open joints or cracks often occurring in the average mortar joint in one-brick walls.

An examination of many attic chimneys will reveal such cracks. They are easily distinguished by a feather of black soot and dust around the opening. In normal operation, the draft within the chimney is sufficient to cause the surrounding air—say attic air, because most of the roof fires begin in the attic—to pull inward toward the chimney. When a heavy deposit of soot collects upon the inner surface of the chimney and this is fired by an extra hot fire in the furnace, the gases trying to escape from the top of the chimney are so great that the "pull" of the chimney is overcome and a reverse condition takes place. The pressure within the chimney now is greater than that of the air without and the hot gases are forced out through the cracks to the attic, igniting any combustible material in their path. Many of our mysterious roof blazes could probably be traced to this one defect in chimney construction. Tile linings effectually cut off gas leakages to the house, but emphasis should be laid upon the fact that the lining should be of the best and strongest quality, each section end should be well bedded in a good mortar joint, and the entire lining should be laid against the brickwork but should not be slushed in. This will permit the lining to expand and contract free from the chimney proper.

#### *Heat Loss*

If the loss and damage caused by buildings that leak heat too freely were as visible as the loss and damage a leaky roof makes there would be in actual operating existence today a class of builders as extensive as roofers, fully prepared to protect every class of building against preventable heat losses—*Keith's Magazine*.

## TELLS PRES. COOLIDGE HOW BUILDING STANDS

*S. W. Strauss Outlines Construction Situation During Recent Visit At White House*

President Coolidge recently was told that building operations might well be expected to continue in the same volume indicated during the past season, receiving this view when S. W. Strauss, of New York, recently visited the White House for a conference with the Chief Executive.

Following the conference, Mr. Strauss said.

"There is a potential need for \$8,000,000,000 worth of new buildings in the United States, notwithstanding the fact that building operations this year are 25 per cent. ahead of 1922. Last year the nation's new volume of business was \$4,000,000,000. This year it will be \$5,000,000,000, so that it would require fully a year and one-half of the most intensive operations to make up the present shortage.

"With these large activities there is no likelihood of any unemployment problems, at least in the immediate future. Also the \$5,000,000,000 of new buildings means that just this much new capital is being created which will contribute its share of Federal, State and municipal taxes.

"An important development is the great increase of Winter building. October building permits throughout the country were 25 per cent. ahead of September, although ordinarily building operations decline sharply in October. Last month's permits were 30 per cent. ahead of October last year.

"These facts reflect the universal confidence of the business interests of the country in a continuance of present business expansion.

"Organized labor in the seventeen building crafts has lost 60,000 members in the last two years. This supply is being replenished through apprenticeship schools, but it will possibly be two or three years before the labor supply is commensurate with the demands."—*Associated General Contractor's Bulletin*.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BOILER AND PIPE COVERINGS.

Keasbey & Mattison Co. ....1927 Market St., Phila.  
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

The Van Sciver Corporation,  
The Parkway at 24th St., Phila.

## CEMENT.

The Van Sciver Corporation,  
The Parkway at 24th St., Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLD STORAGE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....Darby, Pa.  
Gramm, Price, Turner, Inc.,  
176 E. Tulpehocken St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## CORK FLOORING

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## CURTIS WOODWORK.

Gillingham Co. ...Norris and Richmond Sts., Phila.

## CUT STONE.

Cosenza Albert,  
N. E. Cor. 16th and Ellsworth Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP-PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ELEVATOR DOOR CONTROLLERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## ELEVATOR DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.  
McCool, John...Broad St. and Passyunk Ave., Phila.  
McDevitt, John F. ....1403 N. 20th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ...Erie Ave. & "D" St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## HOT WATER GENERATORS.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## HOUSE CLEANING.

Keystone House & Window Cleaning Co.,  
1219 Filbert St., Phila.

## HOUSE MOVING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.  
Philadelphia Fire & Marine Ins. Co.,  
1711 Chestnut St., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ....19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co. ....Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....34 S. 16th St., Phila.

## LEVELS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LINOLEUM.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LINOTILE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Gillingham Co. ...Norris and Richmond Sts., Phila.  
Ketcham, Howard.....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## MARBLE AND MOSAIC.

Cosenza Albert,  
N. E. Cor. 16th and Ellsworth Sts., Phila.  
Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MILLWORK.

Gillingham Co. ...Norris and Richmond Sts., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories....1432 S. Penn Square, Phila.

## PAPERHANGING AND DECORATING.

Sukerman, S. ....2958 N. 22nd St., Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ....949 N. 9th St., Phila.

## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Lukens, Lewis N. ....19th and Washington Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.

## SAND AND GRAVEL.

The Van Sciver Corporation,  
The Parkway at 24th St., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEET METAL AND ROOFING.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## SHEETROCK (Wall Board).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## SHORING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS.

Uhrig Brothers.....528 E. Wishart St., Phila.

## STAIRS (Sheet Steel).

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STEAM SHOVEL CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
McCool, John...Broad St. and Passyunk Ave., Phila.  
McDevitt, John F. ....1403 N. 20th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## STEAM SPECIALTIES.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## STEEL SASH.

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STONE.

Brenz, Wm. P. ....5321 Baltimore Ave., Phila.  
John D'Lauro.....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair.....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
Conkling-Armstrong Terra Cotta Co.,  
Denckla Bldg., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## TERRA COTTA SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## TILE AND TERRAZZO WORK.

Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Carroll, Thos. A. ....2315 Walnut St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## TRANSITS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## UNDERPINNING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## WALL BOARD, COMPO BOARD

Ketcham, Howard .....3rd and Girard Ave., Phila.

## WALL BOARD (Sheetrock).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ....10th and Columbia Ave., Phila.

## WALL COPING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## WATER HEATERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.

## WATER PAINT.

Southern, Wm. B.N. W. Cor. 12th and Spruce, Phila.

## WATERPROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Builders' Specialty Co., Inc. ....1844 N. Front St., Phila.  
Concrete Waterproof Paint Co. ....829 N. 3rd St., Phila.  
Gibson, Thomas F. ....20 S. 15th St., Phila.  
Truscon Laboratories....1432 S. Penn Square, Phila.

## WHITENASHING.

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# Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 51  
December 19, 1923

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and the Material and Equipment Trades

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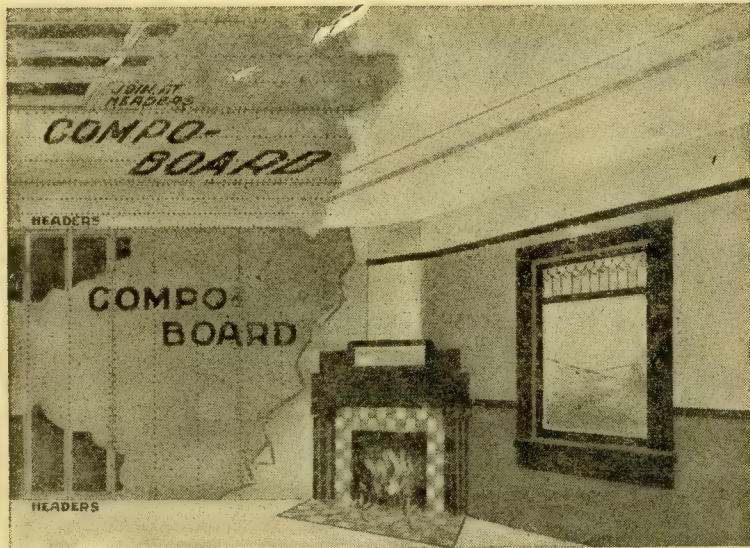
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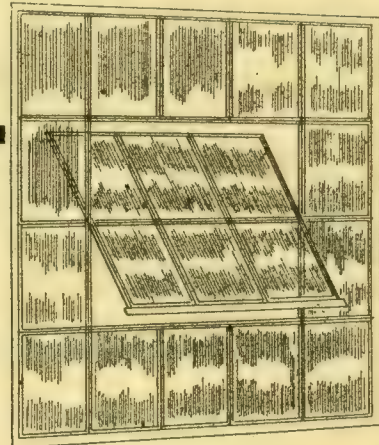
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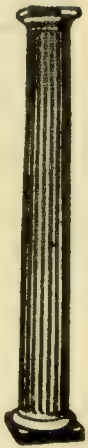
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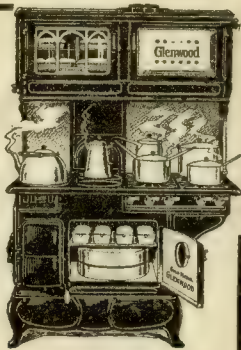


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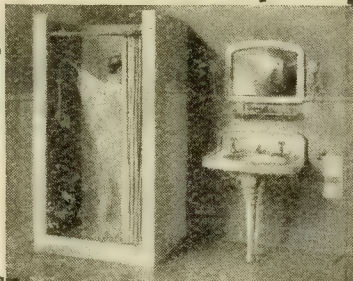
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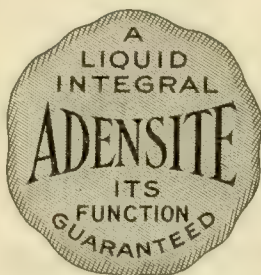
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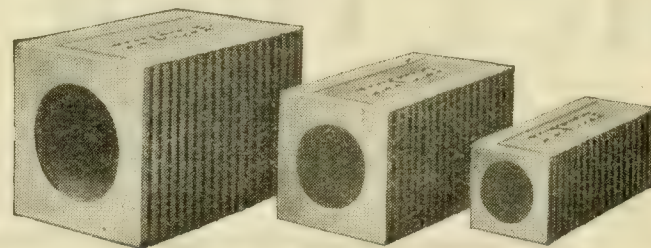
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# BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 51

PHILADELPHIA  
December 19, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
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## As The Editor Sees It



### PROFESSION OR BUSINESS

BY EARNEST FLAGG AYRES

Every time the schools and colleges close for the summer, the country is flooded with aspiring young engineers, all of them in a receptive mood to "accept a situation," and some of them desperate enough to "take a job," if it comes their way. Yet few, if any of these young men have examined the possibilities open to them in the newest profession on earth, the one that is still rather uncertain as to whether it should be classified as a profession or a business, that of contracting.

After a boy has graduated with high honors from his alma mater, where both his class mates and the faculty predicted a brilliant career for him, he naturally is quite disappointed to find that no one seems to care a depreciated ruble whether or not he ever gets a chance to display his ability.

For eight years, all the way through high school and college he had heard of the wonderful opportunities that were open to the trained civil engineer. If he had ever wondered why those who dealt so glowingly on the rewards awaiting the practicing engineer should be sticking so closely to an underpaid job as teacher, he had dismissed such suspicions as unworthy. Probably his instructors were idealists, preferring to spread knowledge over the fertile fields afforded by immature minds than to make their fortunes in commercial life.

He gazed at figures purporting to show the incomes of men at the head of the profession, and pored over the advertisements stating the princely rewards awaiting the draftsman or instrumentman. He determined to show the world how easy it would be for the young graduate, one who had chosen his university with scrupulous care, to make a fortune before many years had passed. Dad might still be working at an age when he should have retired long before, equipped with such a magnificent training, would show the old gentleman a thing or two.

Now that he was graduated things looked different, somehow. He discovered, for the first time that universities, technical schools, agricultural colleges, and even correspondence courses had loosed upon an afflicted world about two building engineers for every job that was open. He had left his name, together with his address, his telephone number, and copies of his references, at every engineering office in the city, at first hopefully, but later with an experience born of knowledge that this was merely a polite way of disposing of his case for keeps. It certainly was discouraging, and the sardonic, yet pitying smile on Dad's face was far from reassuring.

And all this time there was a job waiting for him, a good job, if he would take it. He had visited the chief engineers, city engineers, consulting engineers, would be engineers, and almost engineers in search of employment, but had kept away

from the men who actually do things. Not design them, but erect them, risking their time, their money and their reputation on the integrity of their work.

Contractors are looking for the young man with a technical training, and who is willing to use his hands as well as his brains in this world. It is a man's game. Why not get into it?

But, says the youngster, he objects to leaving the oldest profession in the world to go into a roughneck business. That is where he is wrong—on both counts. Civil engineering, far from being one of the oldest professions known to man, is one of the newest. The so-called engineering marvels of by gone ages were built by brute strength. Everyone has heard the definition of an engineer: "A man who can do for one dollar what any d—n fool can do for two." In the olden days, they used three or four. Not dollars, maybe, but men, which would mean the same thing in these days. Back in King Tut's time, men were cheap. Brick layers did not get \$12 a day with overtime. They were lucky to get sufficient eats, and time enough to sleep. It was the same in Caesar's time, and in the days of Louis XIV and in the merry period of Charles the First. In fact, it was the same down to comparatively recent times.

Look at our country. We hear a great deal about the engineers who were responsible for the opening of continent, running the lines of railroad which made

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possible the settlement of prairie, mountain and valley. Wrong again, as per usual. There were no engineers in those days, as we understand the term today. Only surveyors, and anyone who has striven to pick up some of the old corner stakes is not particularly impressed with the accuracy of these old times.

Those railroads were financed by business men. Men with a vision who were willing to take a chance. The engineering was regarded as a necessary, but foolish expense, which ran the overhead up something sinful. The details of construction were worked out by the builders, the contractors, if you please. Those whom we now call engineers set the stakes, fought the Indians, ate jerked beef, killed rattlers, and forever established high boots and a flannel shirt as the proper equipment for those who were to follow. Today the rattlesnake is gone, together with the approved antidote for his poison, but the high boots remain, a symbol of early days in the west.

Civil engineering was pretty much of a hit and miss proposition until recently. If you missed the first shot, you kept guessing until you hit it. The only profession which is new is the one the boys should get into—contracting.

The two professions have grown up together of late years. Back in the days when they were only Military Engineers, with a whole regiment of men to do the job that would have required a squad under ordinary conditions, there were no contractors. The Lord of the Manor or the Baron, or His Royal Highness the king, or some other exalted personage was in charge of the work, theoretically. Practically, he furnished the men, slave or free, and left the management of the project to his overseers—with whips. They did a good job, too. They had to, or else get down in the ditch and let someone with a stronger arm, and less conscience, handle the proposition. Results were all that counted.

Then it dawned upon some lazy genius that it might be cheaper, and less bother, to engage some chap to do the work, paying him a small sum for his services. Sort of a "Cost Plus" proposition. (There's nothing new under the sun, you know.) After a while, not wishing to be bothered with details—and bills—the employee was asked to name a definite sum for which he would do the job, win, lose or draw. Thus was the contractor born, though not yet as a professional man.

He was a gambler. He had to be to get into the business in those days, so he usually started out with little or nothing to lose. Nearly always he was a graduate from the pick and the shovel, or from the seat on a one-horse, two-wheeled dump cart, a seat which the foreman smashed with a grub hoe every time

he got a chance. Drivers were supposed to walk.

He saved his money until he had a little ahead, and then went into the business on his own. If he lost his entire working capital, he could recoup by getting his old job back for a month or so, and he did not take large contracts. There were none to take at that time.

It is quite the fashion to sneer at these early contractors. Most of them were immigrants, late from the Emerald Isle. They had their choice of going into prize fighting or into contracting, both occupations being certain to gratify that lust for battle which is so ingrained in our Irish friends. Their early education had been sadly neglected, according to our standards, but they knew to a nicety just how much work a man or a horse should turn out in a day, and they saw to it that there was no "sojering" on their jobs. Would that we could have more of them in the building industry at present.

Many of them could neither read nor write, but their supply of free flowing profanity, and their picturesque vocabulary, cannot be matched in these degenerate days. They were rough men. They needed to be. It was a rough game in those times. But they turned out the work, and that was all that mattered.

Conditions have changed today. More and more is the contracting business demanding a larger supply of brains, and somewhat less brawn. No longer is it necessary for the boss to be able to lick any guy in the outfit, nor the foremen selected because they have fists like sledgehammers, which they can use with the precision and finality of pile drivers. Jobs are too big to handle by the old methods. Organization not oratory, is needed.

The contractor of 1923 is a gentleman, in a gentleman's profession. Even though he wished to adopt the tactics which were so successful a generation ago, he has a tremendous financial responsibility to sober him. The smallest concrete mixer costs him more than the old contractor's outfit was worth. He must meet bankers, business men, investors, and manufacturers, and must meet them on their own plane. The business of the nineteenth century has become the profession of today.

No longer can the contractor be entirely ignorant of the theory of structures. That was all right when lumber, brick and stone were the materials used for nearly all large buildings, but the advent of reinforced concrete changed these conditions. No longer is it considered good form to sneak a bag of cement out of each batch of concrete. Even the foreman knows that the factor of safety will not stand such harsh measures.

(Continued on page 814)

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**Office Building**, Northeast Corner Sydenham and Locust streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Charles Kahn, Morris Building, Philadelphia. Reinforced concrete and steel, 10 stories. Plans in progress.

**Apartment House**, Southeast Corner Nineteenth and Spruce streets, Philadelphia. Owners, Nineteenth and Spruce Corporation, care of Saul, Ewing, Remick & Saul, Land Title Building, Philadelphia. Stone, steel, brick, concrete, limestone, 15 stories, 44x133 feet, will contain 105 apartments, steam heat, electric light, metal lath, tile and marble work, iron work, Murphy beds, kitchen equipment, roof ventilators, elevators, plumbing, hardwood, pine and composition floors. Sketches in progress.

**Residence**, Carpenter's Lane, West of Wayne avenue, Germantown. Architect, C. A. Ziegler, 1309 Locust street, Philadelphia. Owner, C. W. Bacon, 908 N. Broad Street, Philadelphia. Architect selected.

**Apartment**, Sixty-first and Nassau streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Samuel Schlosberg, Forty-ninth above Pine street, Philadelphia. Brick, stone, steel, 3 stories, 42x93 feet, hot water heat, electric light, tile and marble work, slag roof, hardwood floors. Plans in progress.

**Residence (alts.)**, School Lane, Germantown, Pa. Architect, George S. Idell, 1705 Chestnut street, Philadelphia. Owner, Dr. M. J. Karpeles, 146 West Cheltenham avenue, Philadelphia. Brick, 3 stories, vapor heat, slate roof, hardwood floors, plastering, mill work, plumbing. Plans in progress. Will take bids in spring of 1924.

**Doctors' Offices (alts. and add.)**, 1427 Spruce street, Philadelphia. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. New front and rear exterior, 3 stories, brick, hardwood floors, plumbing, heating, electric lighting. Plans in progress.

**Apartment (alts. and add.)**, 2025 North Broad street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Brick, 3 stories, general alterations. Plans in progress.

**Paint Shop (add.)**, 5438 Ella street, Philadelphia.

**delphia**. Architect, private plans. Owner, Peter Hentz, on premises. Brick, steel, concrete, 1 story, 40x50 feet, slag roof, cement floors, heating and electric extensions, rolled steel sash. Owner will build and is ready for sub-bids.

**Operation of Residences**, Limekiln Pike and Andrews avenue, Philadelphia. Architect, private plans. Owner, J. J. Kelly, 6722 York Road, Philadelphia. Brick and stucco, hot water heat, electric light, tile work, slate, slag and tin roof, hardwood floors. Operations started. Will build balance in spring, 1924.

**Garage**, 1333 Frankford avenue, Philadelphia, \$10,000. Architect, Edward Schoppe, 316 South Fifteenth street, Philadelphia. Owner, William P. Veas, care of architect. Brick, steel, cut stone, 1 story, 10x40 feet, slag roof, cement floors, plumbing, roof ventilators, galvanized iron skylights, terra cotta, coping, iron work. Owner will build.

**Mill Building**, Northwest Corner Allegheny and Boudinot street, Philadelphia. Architect, E. A. Stopper, Fuller Building, Philadelphia. Owners, Concordia Silk Mills, W. G. Ewald, on premises. Reinforced concrete, 3 stories, 52x103 feet. Architect ready for bids in a few days.

**Apartment House**, Hunting Park and Old York Road, Philadelphia. Associate architects, J. E. Fieldstein and Alvin C. Bieber, Otis Building, Philadelphia. Owner, name withheld. Brick, limestone, 4 stories, 55x118 feet, 2 wings, slag roof, hardwood floors, vapor heat, electric light, tile and marble work, Murphy beds, kitchen equipment (24 apartments). Architect will be ready for bids in two weeks.

**Store (alts. and add.)**, 6012 Lansdowne avenue, Philadelphia. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owner, Benjamin Gelb, 5924 Lansdowne avenue, Philadelphia. Brick, steel, 1 story and basement, 48x22 feet, slag roof, cork tile, cement and pine floors, steam heat, electric light, metal lath, rolled steel sash and skylights, bond, iron work, waterproofing. Architect taking bids due December 20th.

**Alterations**, 2739 Girard avenue, Philadelphia. Architect, private plans. Owners, Mar-

kowitz & Son, 2637 Girard avenue, Philadelphia. Bulk windows, plate glass, electric work, oak floors, tile work, shoring. Owners taking bids due December 20th.

**Apartment House**, Delancey and Bouvier streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, name withheld. Brick, steel and terra cotta, 4 stories, 39x80 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work (elevators reserved), Murphy beds, galvanized iron bays, kitchen equipment, fire tower. Architects taking bids due January 2nd, 1924.

**Bank**, Frankford and Unity streets, Philadelphia. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owners, Frankford Trust Co., 4344 Frankford avenue, Philadelphia. Brick, cut stone, steel, 3 stories and basement, 114x69 feet (plumbing, heating and electric reserved), built-up asbestos roof, cement and pine floors, hollow tile, metal lath, tile, marble, terrazzo work, kalamain doors, iron stairs, metal weather strip. Architects taking bids due December 22nd at noon.

**Shelter Building (Hanover Playground)**, East Columbia avenue and Earl and Thompson streets, Philadelphia. City architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Painting and glazing, plastering, concrete and cement, steel and iron work, carpentry and mill work, terra cotta, hardware, asbestos shingle roof, plumbing and electric. Owners taking bids due December 21st.

**Ice Manufacturing Plant (alts. and add.)**, Ninth and Washington avenue, Philadelphia. Architect, Leslie Weirs, 41 East Forty-second street, New York City. Owners, American Ice Co., City Center Building, Philadelphia. Waterproofing, reinforced concrete, structural steel, cork insulation, creosoting. Architect taking bids due December 21st.

**Store (alts.)**, 3646 North Broad street, Philadelphia. Architect, private plans. Owner, G. A. Wurster, 3604 Germantown avenue, Philadelphia. Plastering, painting and glazing, carpentry and mill work, bulk windows. Owner taking bids due as soon as possible.

**Apartment Houses (3)**, City avenue and Bryn Mawr avenue, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, Bala Court Apartments, Bala, Pa. Brick, stone, steel, terra cotta, 4 stories and basement, 104x47 feet each, steam heat, electric light, tile and marble work, slag roof, hardwood and composition floors. Architect ready for sub-bids due December 24th.

**Residence**, 738 Sentner street, Philadelphia, \$6,000. Architect, private plans. Owner, F. Wiggs, 740 Sentner street, Philadelphia. Frame and brick, 3 stories, 16x28 feet, and 2 stories, 16x22 feet, shingle roof, hardwood and pine floors, hot water heating, electric lighting, tile work. Owner will build.

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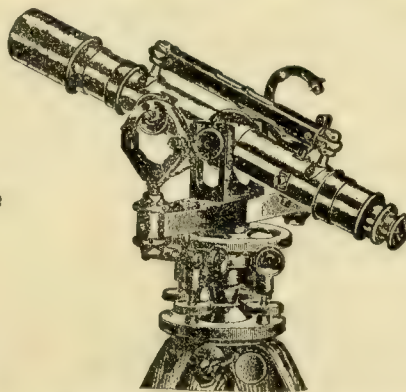
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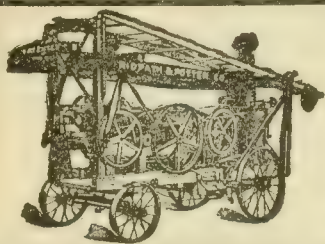
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**Store (alts. and add.),** 4450-54 Frankford avenue, \$25,000. Architect, private plans. Owners, F. W. Woolworth Co., on premises. Brick, 3 stories add., 25x150 feet, general alterations. Owners will build.

**Garages (2),** Southwest Corner Fifth and Shunk streets, Philadelphia, \$10,000 each. Architect, private plans. Owner, Louis Weiner, 2443 South Franklin street, Philadelphia. Brick, 1 story, 34x182 feet each, slag roof, cement floors. Owner will build.

**Warehouse (alts.),** Southwest Corner Ninth and Brown streets, \$12,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, on premises. Brick elevator shaft. Owners will build.

**Residences (2),** East side Montour street, South of Cottman, \$12,000. Architect, private plans. Owner, Harry Gorelich, 2427 North Douglass street, Philadelphia. Brick and frame, 2 stories, 16x46 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residence,** 1404 Shelmire street, Philadelphia, \$7,000. Architect, private plans. Owner, Frank Kasitz, 1225 North Leithgow street, Philadelphia. Frame, 1 story, 28x48 feet, hardwood and pine floors, electric lighting. Owner will build.

**Manufacturing Building (repairs),** South side Tabor Road, West of F street, Philadelphia, \$5,000. Architect, private plans. Owners, William Whitaker & Sons, on premises. General fire repairs. Owners will build.

**Building (add.),** Southwest Corner Twenty-fifth and Wharton streets, \$3,000. Architect, private plans. Owners, Penn Metal Co., Twenty-fifth and Wharton streets, Philadelphia. Iron, 1 story add., irregular size. Owners will build.

**Storage (add.),** Northwest Corner Twenty-third and Market streets, \$2,500. Architect, private plans. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, 1 story add., 17 feet, 9 inches x 20 feet, 9 inches, concrete roof and floors. Owner will build.

**Residences (9),** North side Upland street, East of Sixty-ninth street, \$6,000 each. Architect, private plans. Owners, Quaker City Const. Co., 1803 Spring Garden street, Philadelphia. Brick, 2 stories, 15x25 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owners will build.

**Lumber Shed,** West side Dugan Road, South of Rhaun, \$4,000. Architect, private plans. Owners, Krewson Supply Co., on premises. Frame, 53x76 feet. Owners will build.

**Garage,** 4925 A street (rear), Philadelphia, \$2,000. Architect, private plans. Owner, Pasquale Rose, on premises. Brick, 1 story, 39x30 feet, slag roof, cement floors. Owner will build.

**Store and Residence (alts. and add.),** Northeast Corner Thirteenth and Ogden streets, \$3,000. Architect, private plans. Owner, S. Gilman, on premises. Brick, 1 story, 12x10 feet, general alterations. Owner will build.

**Shop (alts. and add.),** 1342 West Thompson street, Philadelphia, \$2,500. Architect, private plans. Owner, John P. Gaffnery, on premises. Brick, 1 story add., 16x70 feet, slag roof, general alterations. Owner will build.

**Store Building (alts.),** 1606 Chestnut street, Philadelphia. Owner, Waldo M. Claffin, 1107 Chestnut street, Philadelphia. General interior alterations. Owner will build.

**Playground,** Twenty-seventh and Clearfield sts., Philadelphia. City Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Bond, excavating, grading, surfacing, sodding, concrete curbs and gutters, fence, painting. Low bidders: George F. Dobbins, 1020 South Forty-seventh street, \$6,800; I. S. Kauffman, North American Building, Philadelphia, \$9,211.

**Fire House,** Belgrade and Clearfield streets, Philadelphia. City architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property. Low bidders: Curtis Grindrod, 10 South Eighteenth street, Philadelphia, \$2,489; E. C. Durrell, Fifth and Cheltenham avenue, Philadelphia, \$2,596.

**South Second street, Market, Pine to Lombard, Philadelphia.** City architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Low bidders: George Dobbins, 1020 South Forty-seventh street, Philadelphia, \$28,800; H. Hurley, 3312 Lancaster avenue, Philadelphia, \$32,975.

**Stores and Apartments (11),** East side Broad below Rockland, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. H. Waldow, Widener Building, Philadelphia. Brick, cut stone, 3 stories, 61x61 feet, slag roof, pine floors, metal lath, bond, metal bulks, terra cotta, iron work. Owner taking general bids due December 20th.

**Store Building,** 1526-28 Chestnut street, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Steigerwalt Boot Shop, 1420 Chestnut street, Philadelphia. Ready for bids in a few days.

**Store (add.),** 204-06-08 West Cheltenham avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Brick, 1 story. Architect taking bids due as soon as possible.

**Manufacturing Building (alts. and add.),** Spring Garden street, between Philip street and North American street, Philadelphia, \$6,500. Architects, Furness, Evans & Co., 315 South Fifteenth street, Philadelphia. Owner, V. H. Smith, Southwest Corner Second and Green streets, Philadelphia. Reinforced concrete and brick, 5 stories, 62x29 feet, 6 inches, slag roof, steam heat, electric work. Architects will build.

**Apartment House,** Northeast Corner Eighteenth and Vine streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, J. Clarence Fitch, on premises. Brick and limestone, 4 stories, 40x125 feet. Architect taking bids due December 27th.

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

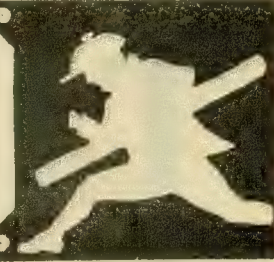


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## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Library, Parkway, Philadelphia.** Architect, H. Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Buildings, Philadelphia. Plumbing, grading, refrigerator and vacuum cleaner system, heating and ventilating. Contract awarded: Plumbing, W. G. Cornell, Colonial Trust Building, Philadelphia, \$236,000. Heating, J. H. Conney, 212 South Fourth street, Harrison, N. J., \$397,500.

✓ **Mill Building, Torresdale avenue, West of Paul street, \$15,000.** Architect, Clarence E. Wunder, 1415 Locust street, Philadelphia. Owners, Crescent Textile Supply Co., Trenton and Susquehanna avenues. Brick, concrete, steel, 1 story and basement, 21x76 feet (heating, plumbing, electric work reserved), slag roof, composition and maple floors, hollow tile, metal lath, rolled steel sash, fire and kalamein doors, bond. Contract awarded to Frank Achuff, 1600 North Front street, Philadelphia.

**Telephone Building, Seventeenth and Lombard streets, Philadelphia.** Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, reinforced concrete, 2 stories and basement, 224x73 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, bond, waterproofing, iron work. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Plant, Forty-fourth and Girard avenue, Philadelphia, \$40,000.** Architect, C. Leslie Weir, 41 East Forty-second street, Philadelphia. Owners, American Ice Co., City Center Building, Philadelphia. Brick, steel, 3 stories, 206x40 feet, wing 38x51 feet, slag roof, cement floors, waterproofing, bond, rolled steel, iron work. Contract awarded Fred Havens, 845 North Nineteenth street, Philadelphia.

✓ **Residence (alts.), Garage, 6391 Overbrook avenue, Overbrook, Pa.** Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, A. Percival Smith, Overbrook, Pa. Stone and brick, 1 story, 15x20 feet, slate roof, cement floors, hot water heat, electric light, ornamental iron work. Contract awarded J. M. Yardley, 1716 Sansom street, Philadelphia.

**Garage, North side Cheltenham avenue, West of Chew street, \$20,000.** Architect, private plans. Owner, Samuel Golder, 909 Finance Building, Philadelphia. Brick, steel, 1 story, 50x150 feet, slag roof, cement floors, steel sash, steam heat, electric light, waterproof-

ing. Contract awarded to Golder Const. Co., 263 South Fifteenth street.

**Factory (add.), 1825 North Ninth street, Philadelphia.** Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owners, Standard Wall Covering, on premises. Brick, slow-burning, 2 stories, 50x60 feet, slag roof, concrete and pine. Contract awarded Tony Oliveri, 1578 Adams street, Philadelphia.

**Alterations, 1305 Locust street, Philadelphia.** Architect, E. K. Taylor, Franklin Bank Building, Philadelphia. Owners, Pennsylvania Institute for Blind, on premises. New entrance, display window, leaded glass, marble work, cabinet work. Contract awarded T. S. Fetter, 1829 Filbert street, Philadelphia.

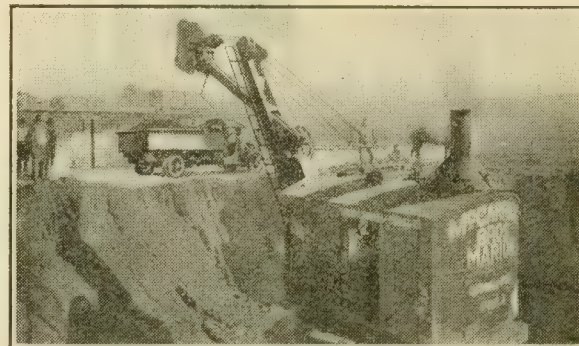
**Residence and Garage, 6902 Lincoln Drive, Philadelphia, \$20,000.** Architect, private plans. Owner, Louis Kolsky, Ninth and Locust streets, Philadelphia. Stone, 3 stories, 28x44 feet, 2 stories, 17x14 feet, and 1 story, 21x19 feet, slate roof, hardwood, pine and cement floors, electric lighting, hot water heating, tile work. Contract awarded to Eugene Raymond, Commercial Trust Building.

**Residences (4), West side Fourth street, North of Rockland, total \$15,000.** Architect, private plans. Owner, Richard F. Tussa, 4926 North Fourth street, Philadelphia. Brick, 2 stories, 15x24 feet, 13x15 feet, slag roof, electric lighting, hot water heating. Contract awarded to William C. Rushmer, 2536 South Jessup street, Philadelphia.

**Garages (2), North side Saybrook avenue, West of Seventy-second street, \$11,000 total.** Architect, private plans. Owners, Improved Order of Red Men, 1523 Girard avenue, Philadelphia. Brick, 1 story, 144x17 feet, and 2 stories, 57x17 feet, cement and pine floors, electric lighting. Contract awarded to Thomas M. Cockerill, 2242 St. James Terrace.

**Garage, 1143-47 North Third street, Philadelphia, \$14,000.** Architect, private plans. Owner, Tony F. Yudren, 1630 North Second street, Philadelphia. Brick, 1 and 2 stories, 57x76 feet, slag roof, cement floors. Contract awarded to Edward C. Sherry, 188 West Girard avenue, Philadelphia.

**Residences (2), West side Tabor avenue, South of Cottman, \$7,500 each.** Architect, private plans. Owner, J. S. Thomson, 4100 Paul street, Philadelphia. Frame, 2 stories,



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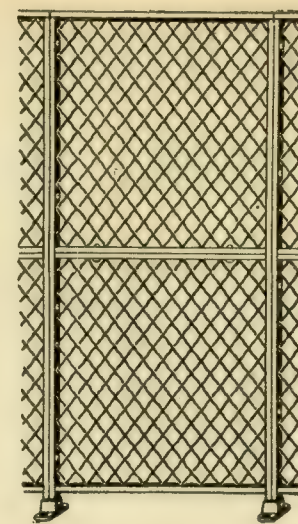
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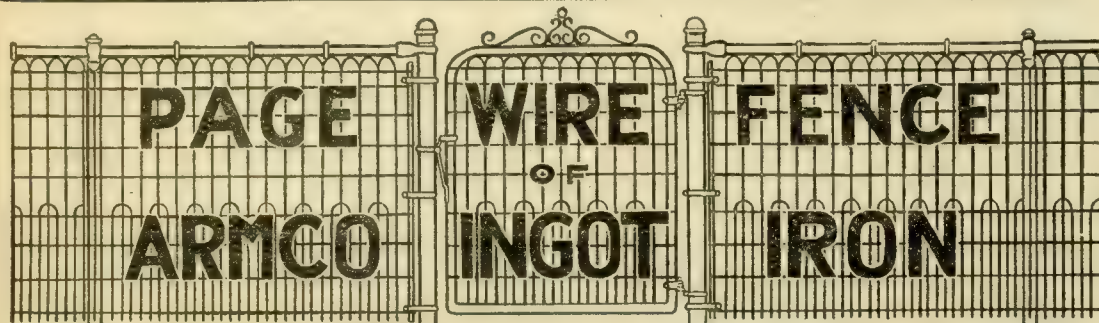


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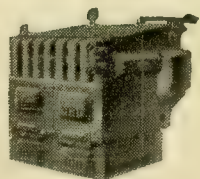
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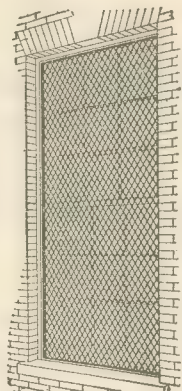
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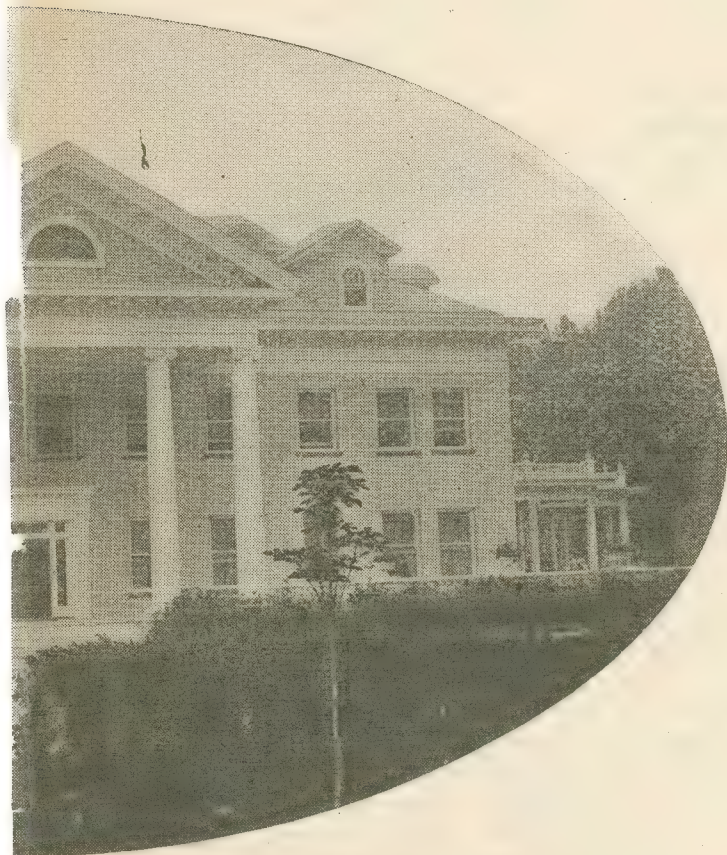


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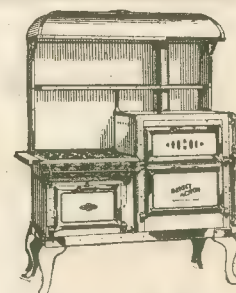
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**Garages (2)**, South side Somerset street, West of Sedgley, \$7,000 each. Architect, private plans. Owner, Joseph Haney, 1906 Somerset street, Philadelphia. Brick, 1 story, 60 feet, 9 inches x 35 feet, and 1 story, 52x50 feet, cement floors. Contract awarded to Louis Rosengarten, 4742 Market street.

**Residence and Store (alts. and add.)**, Southwest Corner Broad and Wyoming, \$7,000. Architect, private plans. Owner, J. Allison Parker, 4715 North Broad street, Philadelphia. Brick, second and third story add., 9x8 feet, general alterations. Contract awarded to Albert Dunlap, 1223 Oak Lane, Philadelphia.

**Manufacturing Building (alts. and add.)**, Southeast Corner Fox and Clearfield streets, Philadelphia, \$8,850. Architect, private plans. Owners, Fontaine Thread Co., on premises. Brick, 2 stories add., irregular size, general alterations. Contract awarded to George P. Clayton, 1817 North Twentieth street, Philadelphia.

**Manufacturing Building (add.)**, Northeast Corner Cottman and Milnor, \$6,600. Architect, private plans. Owners, Delaney & Co., on premises. Steel water tower. Contract awarded to Chicago Bridge & Iron Works, Chicago, Ill.

**Residences (2)**, 6722-24 Ditman street, Philadelphia, \$5,500 each. Architect, private plans. Owner, Mr. Hollingsworth, 1537 Sellers street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Contract

awarded to John F. Davies, 1021 Herbert street, Philadelphia.

**Manufacturing Building (alts.)**, Northeast Corner Sixth and Glenwood avenue, \$4,000. Architect, private plans. Owners, Franklinville Artificial Ice Co., on premises. General alterations. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

**Store and Residence (alts. and add.)**, 2116 West Columbia avenue, \$6,000. Architect, private plans. Owner, John A. Covington, 1928 Montgomery avenue, Philadelphia. Brick, 1 story add., 12x14 feet, slag roof, steam heat, alterations. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

**Residences (2)**, South side Stanwood street, West of Castor avenue, \$5,600 each. Architect, private plans. Owners, Robert Moore and M. Trussell, 527 East Hilton street, Philadelphia. Frame, 2 stories, 18x38 feet, hardwood and pine floors, electric work. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Residence**, North side Stanwood street, West of Castor avenue, \$5,350. Architect, private plans. Owner, John J. Thessing, 3247 Tampa street, Philadelphia. Frame, 2 stories, 22x26 feet, slate and shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to William T. Garrison, 1338 North Tenth street, Philadelphia.

**Boiler House**, Southeast Corner Fifty-first and Botanic avenue, Philadelphia, \$18,000. Architect, private plans. Owners, George W. Smith & Co., Forty-ninth and Botanic avenue, Philadelphia. Iron, 1 story, 29x42 feet, 21x18½ feet, also brick stack. Contract awarded to John N. Gill Const. Co., Otis Building, Philadelphia.

**Residence and Store (alts. and add.)**, 3012 West York street, \$2,500. Architect, private plans. Owner, Mr. Goldman, on premises. Brick, 2 stories add., 10x12 feet, general alterations. Contract awarded to Greenberg & Cohen, 2543 North Hollywood street.

**Residence**, Northeast Corner Lawrence and Bristol streets, Philadelphia, \$5,500. Architect, private plans. Owner, Joseph Flippin, on premises. Brick, 2 stories, 17x50 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Contract awarded to E. J. Rahas, 4730 Ella street, Philadelphia.

**Residences (4)**, West side Watson street, North of Oxford, \$5,200 each. Architect, private plans. Owner, Herman Norman, 6401 Oxford avenue, Philadelphia. Brick and frame, 2 stories, 16x32 feet, shingle roof, hot water heat, electric light, hardwood and pine floors. Contract awarded to Lawndale Dev. Corp., 1006 Cottman street.

**Store and Residence (alts.)**, 549 West Venango street, \$4,400. Architect, private plans. Owner, Samuel Zalmanovich, on premises. General alterations. Contract awarded to John Klaus, Eighty-fourth and Dicks avenue, Philadelphia.

**Store and Residence (alts. and add.)**, 2332 Hunting Park avenue, \$3,400. Architect, private plans. Owner, L. Susmanes, 2422 Hunting Park avenue, Philadelphia. Brick, 1 story add., 16x18 feet, general alterations. Contract awarded to Samuel Rosen, 1317 South Fairhill street, Philadelphia.

**Garage**, 3327 D street, Philadelphia, \$2,500. Architect, private plans. Owner, James Guckin, 3327 D street, Philadelphia. Brick, 1 story, 14x75 feet, slag roof, cement floors. Contract awarded to Leonard Mallard, 3308 E street, Philadelphia.

**Residence (add.)**, 822 Sixty-fifth avenue, Philadelphia, \$2,375. Architect, private plans.

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Owner, Frank A. Sagage, on premises. Brick, 2 stories add., 16x12 feet. Contract awarded to William J. Baltz, Sixty-sixth and Lawn-ton avenue.

**Residences (2)**, South side Bleigh street, West of Whitaker, \$4,500 each. Architect, private plans. Owners, Ray and Joseph Webb, 714 East Willard street, Philadelphia. Hollow tile, 2 stories, 16x38 feet, shingle roof, hot water heating, electric lighting. Contract awarded to Frank B. Naylor, Clementine, N. J.

**Store and Residence (add.)**, 4751 Richmond street, Philadelphia, \$2,000. Architect, private plans. Owner, E. Lukasezuisz, on premises. Brick, 2 stories add., 24x18 feet. Contract awarded to K. Lubiszewski, 3058 Salmon street, Philadelphia.

**Store and Office (alts.)**, 908 Walnut street, Philadelphia, \$2,000. Architect, private plans. Owner, J. Lipshutz, on premises. General alterations. Contract awarded to Golder Const. Co., 263 South Fifteenth street.

**Residence (alts.)**, 1704 North Broad street, Philadelphia, \$2,000. Architect, private plans. Owner, Yong Chang, 1221 Chestnut street, Philadelphia. General alterations. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

**Office and Club (alts.)**, 1315 Spruce street, Philadelphia, \$2,800. Architect, private plans. Owners, Engineers' Club, 1317 Spruce street, Philadelphia. General alterations. Contract awarded to Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

**Garage**, West side Mercer street, North of Westmoreland, \$2,450. Architect, private plans. Owner, Peter Szogola, 3331 Almond street, Philadelphia. Brick, 1 story, 16x60 feet, slag roof, cement floors. Contract awarded to Frank Janyezik, 3188 Edgemont street, Philadelphia.

**Residence (alts.)**, West side Crefeldt street, North of Sunset avenue, \$2,000. Architect, private plans. Owner, Livingston E. Jones, on premises. New roof. Contract awarded to H. R. & C. F. Young, Bells Mills Road and Stenton avenue, Philadelphia.

**Residence**, North side Aubrey street, West of Tulip street, \$5,000. Architect, private plans. Owner, George W. Till, 6103 North Warnock street, Philadelphia. Frame, 1 story, 24x30 feet, hardwood and pine floors, electric light. Contract awarded to A. W. J. Williams, 3011 Linden avenue, Philadelphia.

**Residence and Store (alts.)**, 2113 Locust street, Philadelphia, \$3,000. Architect, private plans. Owner, Roswill Sterner, 8 South Eighteenth street, Philadelphia. General al-

terations. Contract awarded to Joseph H. Webb Co., 34 South Sixteenth street, Philadelphia.

**Police and Fire Station**, Rising Sun avenue and Tenner street, Philadelphia. Architects, Hewitt & Ash, 1827 Arch street, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall. Brick, terra cotta, steel, stone, steam heat, electric light, 2 stories, 86x55 feet, metal lath, tile work, bond, iron work, waterproofing, marbleoid, cement and pine floors, tin roof (plumbing, heating and electric reserved). Contracts awarded: Bowden Const. Co., 1935 Chestnut street, Philadelphia. Heating, L. J. Somers & Son, 2436 Brown street, Philadelphia, \$5,295. Plumbing, Bullman Brothers, Fifth and Cumberland streets, Philadelphia, \$4,956-\$4,860. Electric, J. F. Buchanan, 1904 Sansom street, Philadelphia, \$3,221.

**Residence and Store (alts. and add.)**, 2161 Ridge avenue, \$9,000. Architect, private plans. Owner, Nathan Snyderman, on premises. Brick, 3 stories add., 14x12 feet, 14x18 feet, general alterations. Contract awarded to Schechtman Brothers, 1924 North Marshall street.

**Residence**, East side Verree Road, North of Oxford Pike, \$7,000. Architect, private plans. Owners, Mary M. and J. E. Werner, 4921 North Rosehill street, Philadelphia. Frame, 3 stories, 30x28 feet, electric light, hardwood and pine floors. Contract awarded to H. C. Werner, 4921 North Rosehill street, Philadelphia.

## Pennsylvania Construction News

**Parochial School and Gymnasium**, Scranton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Holy Rosary Congregation, Rev. J. V. Moylan, 316 William street, Scranton, Pa. Brick, 2 stories and basement, 86x125 feet, composition roof, hardwood floors, hollow tile, roof ventilators, waterproofing and dampproofing (heating, electric work and plumbing reserved), tile work, iron stairs, ornamental iron work. Plans in progress.

**Residence**, Dalton, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owner, A. A. Sweetser, 1402 Price street, Scranton, Pa. Frame, 2 stories, 32x40 feet, shingle roof, hardwood floors, steam heat, electric light. Plans in progress.

**Residence**, Bustleton, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, J. Evan Dungan, care of architect. Hollow tile and stucco, 3 stories, 52x20 feet, hot air heat, electric light, shingle

roof, pine floors. Revised plans in progress.

**Residence**, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, W. F. Knatz, care of architect. Stone, 2½ stories, 45x24 feet, shingle roof, hardwood floors, hot water heat, electric light. Plans in progress.

**Bank Building (alts. and add.)**, 804 Center street, Ashland, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owners, Ashland National Bank, J. P. McConnell, president, Ashland, Pa. Brick, cast stone, 1 story, 40x40 feet, slag roof, composition floors, slag roof, electric light. Plans in progress.

**Apartment Houses (10)**, West Chester Road, Upper Darby, Pa. Architect, W. L. Charr, 149 South Fourth street, Philadelphia. Owners, Lavin Brothers, Commonwealth Building, Philadelphia. Brick, 3 stories, 18x80 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile and marble work, hollow metal skylights, bond, metal bulks, terra cotta, metal ceilings, metal lath. Plans in progress. Owner will build.

**Theatre (moving picture)**, Bethlehem, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Civic Theatre, Bethlehem, Pa. Brick, stone, castone, hollow tile, terra cotta, reinforced concrete, ornamental plaster, 2 stories, 52x193 feet, slag roof, blower system heat, electric light, tile and marble work, fire doors, cement and hardwood floors, metal lath, plate glass, iron work, flag pole. Plans about completed. Architect will be ready for bids in a week.

**Church**, Osceola Mills, Pa. Architects, Morris & McHale, Mears Building, Scranton, Pa. Owners, Immaculate Conception Church, Rev. M. J. Renahan, Osceola Mills, Pa. Brick, steel, 1 story and basement, 112x62 feet, asbestos shingle roof, pine floors (heating, plumbing and electric work reserved), metal lath, tile and marble work, kitchen equipment for basement. Owners taking sub-bids.

**High School**, Twelfth street, Easton, Pa. Architects, William Michler & J. W. Snyder, Drake Building, Easton. Owners, School Board of Easton, E. R. Peifer, secretary, Easton, Pa. Reinforced concrete, brick, steel, 3 stories and basement, 250x200 feet (heating, plumbing and electric work reserved), composition roof, maple floors, safety treads, roof ventilators, metal lath, tile and marble work, rolled steel sash, ornamental iron work. Owners will be ready for bids the first of the year.

**Store and Apartment (alts. and add.)**, South Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Adolph Bock, 472 Birkel avenue, Bethlehem, Pa. Brick, 1 story, 31x60 feet,

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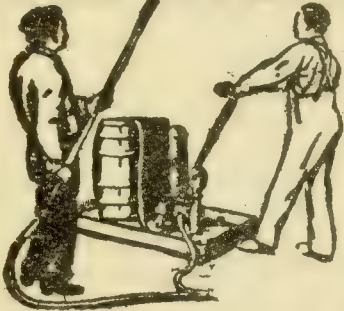
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slag roof, pine floors, hot water heat, electric light, copper work, general interior alterations. Owner taking bids.

**Store and Apartment (2),** West avenue, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown Trust Building, Jenkintown, Pa. Owner, Thomas Lewis, Jenkintown, Pa. Brick, 2 stories, 60x60 feet, built-up asbestos roof, hardwood, pine and composition floors, vapor and pipeless heat, electric light, metal lath. Owner will be ready for general bids in one week.

**Bank (add.),** Williamsport, Pa. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, First National Bank of Williamsport, W. P. Beeber, president. Brick, stone, 4 stories, 52x70 feet. Plans completed. Architect will be ready for bids in two weeks.

**Bank Building,** Broad and Center streets, Tamaqua, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owners, People's National Bank, Tamaqua, Pa., D. F. Shepp, president. Brick and limestone. Ready for bids in two weeks.

**School,** Springhouse, Montgomery County, Pa. Architect, G. E. Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Lower Gwynedd Township (Board of Education), Pa. Brick and cement block, 1 story, 167x67 feet (plumbing, heating, electric reserved), slate roof, maple floors, metal lath, tile and marble work, bond, iron work. Owner taking bids due December 22nd.

**Residence,** Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, William Knatz, care of architect. Stone, 2½ stories, 37x31 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Architects taking bids due December 20th.

**Church (alts.) and Sunday School,** Tamaqua, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, St. John's Evangelical Lutheran Church, Fred Meredith, secretary, Tamaqua, Pa. Brick, 1 story and basement, 30x77 feet, slate roof, pine floors (heating, electric work and plumbing reserved), terra cotta. Owners taking bids due January 1st.

**Henry Houck School,** Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lebanon School District, Lebanon, Pa. Brick, reinforced concrete and cast stone, steel, 2 stories and basement, 247x78 feet, wing 57x70 feet (plumbing, heating, electric separate), tile roof, composition, cork, tile, cement, maple floors, hollow tile, waterproofing, iron work and stairs, bond, floor hardener, hollow metal doors,

rolled steel sash, tile, marble work, metal lath, more art cement. Owners taking bids due January 5th.

**Residence,** East Abington avenue, Wynne-moor, Pa. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 18x65 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect taking bids.

**School,** Forty Fort, Pa., \$290,000. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Forty Fort School District, J. H. Evans, secretary, Forty Fort. Brick, 2 stories. Too early for details.

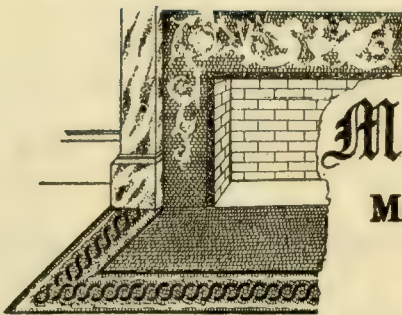
**Apartment,** Kingston, Pa. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. M. C. Rumbaugh, Kingston, Pa. Steel, brick, 4 stories, 47x58 feet, slag roof, pine floors, hollow tile, vapor heat, electric light, tile work. Architects ready for bids.

**Residence,** Scranton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Charles Schroeder, Scranton, Pa. Frame, 2½ stories, 28x41 feet, shingle roof, hardwood floors, vapor vacuum heat, electric light, tile work. Owner ready for sub-bids.

**Synagogue,** Wilkes-Barre, Pa., \$150,000. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Israel Temple Congregation, A. Hurwitz, chairman Building Committee, 13 North Washington street, Wilkes-Barre, Pa. Stone, brick, 1 story and basement, 70x110 feet, slate and slag roof, hardwood floors (heating, plumbing, electric work reserved), metal lath, tile work, rolled steel skylights, iron work. Architect taking bids due January 3rd.

**Manse (alts.),** Edge Hill, Pa. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owners, Carmel Presbyterian Church, Edge Hill, Pa. Interior and exterior alterations, hot water heat, hardwood floors, etc. Plans in progress.

**Bank and Office Bldg.,** Pottsville, Pa. Architects, Mawbrey & Uffinger 221 W. 57th st., New York City. Owners, Schuylkill Trust Co., Pottsville, Pa. Brick, concrete, steel, cut stone, granite and limestone, 7 stories, mezzanine and basement, 120x50 feet, steam heat, electric light, metal lath, tile and cement floors, marble and terrazzo work, Barrett roof, roof ventilators, waterproofing and dampproofing, iron work and stairs, bond, rolled steel sash and skylights, shoring and sheet piling (elevators, bronze work, bank screens and reflectors, lighting fixtures, cork floors and linoleum, furniture and lockers



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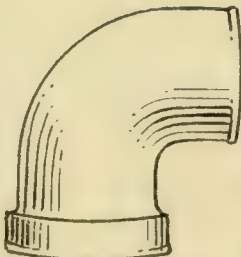
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reserved.) Architects taking bids due January 2nd.

**Road Work, Pennsylvania.** Opened December 11th. Owners, Department of Highways, Capitol Building, Harrisburg, Pa. Low bidders:

Indiana County, Route 54, Cherryhill and Rayne Townships, length 18,421 feet. One course reinforced concrete. M. Bennett & Sons, Indiana, Pa., \$201,987.91.

Greene County, R-109, A-2678 and 2710, Franklin and Washington Townships, 16,948 feet. One course reinforced concrete. Samuel Gamble Co., Carnegie, Pa., \$227,096.87.

Jefferson County, A-2404, Young Township, 4,151 feet. One course reinforced concrete. Resurfacing. George I. Thompson, Clearfield, Pa., \$39,710.35.

Westmoreland County, R-187, Section 4B, Salem Township, 25,693 feet. One course reinforced concrete and hillside vitrified brick. Corrado & Galiardi, Connellsville, Pa., \$261,844.05.

Somerset County, R-50, Spur A, A-2731-32-33, New Centerville Borough, Milford Township and Rockwood, Borough, 14,062 feet. Either bituminous surface course on concrete foundation and hillside vitrified brick or one course reinforced concrete and hillside vitrified brick. Owen & Plummer, Inc., Johnstown, Pa., \$150,892.34.

Westmoreland County, R-18, Sec. R-A, Salem Township, 13,453 feet. One course reinforced concrete and hillside vitrified brick. Corrado & Galiardi, Connellsville, Pa., \$146,701.90.

Jefferson County, R-61, A-1736, Pine Creek Township, 8,755 feet. One course reinforced concrete. F. S. Wilson, Kittanning, Pa., \$87,730.50.

Delaware County, R-180, Chester Township, 1,805 feet. One course reinforced concrete. Juniata Co., Empire Building, Philadelphia, \$32,124.20.

Beaver County, R-204, Fallston and Patterson Heights Boroughs and Patterson Township, 10,530 feet. One course reinforced concrete and hillside vitrified brick. W. S. Morrison, New Brighton, Pa., \$119,815.55.

Northumberland County, R-1, A-2136, Lower Mahanoy Township, 7,424 feet. Grading and drainage. Reitz Brothers, Sunbury, Pa., \$50,696.20.

## Pennsylvania

### Contracts Awarded

**School (high),** Palmerton, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Palmerton School Board, R. B. Rosenberry, Palmerton, Pa. Brick, steel, cast stone, 3 stories and basement, 186x165 feet, slag roof, steam heat, electric light, pine floors. Architect will be ready for new bids

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on general contract and heating contract in a week. Contract awarded: Electric, W. H. Taylor, Allentown, Pa. Plumbing, J. W. Mathews, Fifteenth and Race streets, Philadelphia.

**Residence,** Terminal and Yerkle avenue, Springfield Township, Pa. Architects, R. R. Neely and E. W. Martin, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, 27x30 feet, slate roof, hardwood floors, hot air heat, electric light, tile work (plumbing, heating and gas fittings separate bids). Contract awarded H. G. Hickey, 1114 South Fifty-second street, Philadelphia.

**Store and Loft Building,** Scranton, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owner, Edward F. Ferris, trustees, care of architect. Brick, limestone, fireproof, 3 stories and basement, 80x160 feet, cement and wood floors, Barrett specification roof, hollow tile, electric light, tile and marble work, rolled steel sash, fire doors, iron stairs, ornamental iron work. Contract awarded to R. D. Richardson Co., Connell Building, Scranton.

**Apartment Building (alts.),** Bushkill street, Easton, Pa. Architect, E. H. Wenzelberger, 3 Center Square, Easton, Pa. Owners, First Presbyterian Church, care of architect. Brick and frame, 4 stories, 25x14 feet, general interior alterations, slag roof, pine floors, vapor heat, electric light, partition work. Contract awarded to Howard Forkenson, Easton, Pa.

**Residence,** Wynnewood, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Herman L. Schwartz, care of architect. Stone, cut stone, brick, 2½ stories, 84x34 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work. Contract awarded John E. Kearney, 34 South Seventeenth street, Philadelphia.

**Residence and Garage,** Buckingham, Pa. Architect, L. Walton Heiss, Jenkintown Trust Building, Jenkintown, Pa. Owner, Mr. Cramer, Jenkintown, Pa. Stone, 2½ stories, 40x40 feet, 1 story, 15x20 feet, hot water heat, electric light, wood shingle roof, hardwood and cement floors, tile work. Contract awarded Charles Gilmore, Buckingham, Pa.

**Residences,** Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, D. Walters, care of architect. Cinder block and stucco, 2½ stories, 26x38 feet, asphalt shingle roof, pine floors, steam heat, electric light. Contract awarded to H. German, Wilkes-Barre, Pa.

**Store (alts.),** East Market street, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, Kelley Company, care of architects. Plate glass, copper work, electric light, tile and marble work, bank fixtures, ornamental iron work, pine floors, metal ceilings. Contract awarded to A. D. Thomas, 370 South Main street, Wilkes-Barre, Pa., on percentage basis.

## New Jersey

### Construction News

**Hospital,** Bridgeton, N. J. Architects, Stearns & Woodnutt, Stephen Girard Build-

ing, Philadelphia. Owners, Bridgeton Hospital, Bridgeton, N. J. Brick, concrete, steel, 3 stories, 75 beds, steam heat, electric light, tile and marble work, metal lath, composition roof, cement floors, elevators, heating plant. Plans in progress. Architect will take bids in spring of 1924.

**Bungalows and Garage,** Atlantic avenue, Ocean City, N. J. Architect, private plans. Owner, name withheld. Frame and stucco, 1½ stories, 58x29 feet, 1½, 14x18 feet, hot water heat, electric light, tile work, hardwood and cement floors, asbestos shingle roof. Preliminary plans in progress.

**Cottage,** Ventnor, N. J., \$18,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, J. Kenneth Thompson, 14 South Ohio avenue, Atlantic City, N. J. Frame, stucco, 2½ stories, 30x26 feet. Too early for details.

**Laundry (add.),** Northfield, Atlantic County, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Insane Hospital, care of architect. Brick, 1 story, 36x20 feet, asbestos shingle roof, concrete floors, heating extension, electric light, laundry equipment, floor hardener. Plans in progress.

**Laundry Building and Equipment,** Northfield, Atlantic County, N. J. Architect, J. H. Vaughn, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Insane Hospital, care of architect. Fireproof, 2 stories, 38x88 feet, slag roof, concrete floors, steam heat, electric light, hollow tile, enamel brick, steel sash, floor hardener. Plans in progress.

**Hospital Group,** Morris Plains, N. J., \$2,000,000. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, New Jersey State Hospital for Insane, Dr. Curry, Morris Plains, N. J. Fireproof. Plans in progress. Too early for details.

**School,** Hopewell, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners,



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Hopewell Township School Board, Hopewell, N. J., care of Mr. Hankinson and E. V. Savidge, Hopewell, N. J., and Mr. Woolsey, Pennington, N. J. Brick. Too early for details.

**School**, Pennington, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Hopewell Township School Board, care of Mr. Hankinson and E. V. Savidge, Hopewell, N. J., and Mr. Woolsey, Pennington, N. J. Brick. Too early for details.

**School**, Pennington Road, Hopewell Township, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Hopewell Township School Board, care of E. V. Savidge and Mr. Hankinson, Hopewell, N. J., and Mr. Woolsey, Pennington, N. J. Brick. Too early for details.

**City Hall**, Northfield, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, City of Northfield, care of architect. Brick, hollow tile and stucco, 2 stories, 35x50 feet, hardwood floors, steam heat, electric light, tile work. Plans in progress. Architect will be ready for bids in one week.

**Bank Building (mechanical equipment)**, Eighth and Asbury avenue, Ocean City, N. J. Architects, Paul A. Davis, 3r, & Dunlap, 1713 Sansom street, Philadelphia. Owners, Ocean City Title & Trust Co., Ocean City, N. J. Heating, plumbing and electric work. Architects will take bids in a few days.

**Court House (alts.)**, South Broad and Market streets, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, Board of Freeholders of Mercer County, E. E. Margerum, Court House, Trenton, N. J. Stone, 1 story, hardwood floors, heating extension, (1) elevator, tile and marble work, general interior alterations. Architect will be ready for bids.

**Store (alts. and add.)**, 450 Kaighn avenue, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Benjamin Weinberg, on premises. Brick, second story add., 20x35 feet, slag roof, hardwood floors, electric lighting, general interior alterations. Architect ready for bids.

**Apartment House**, Adriatic and Maine avenues, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Freeman & Kauffman, Atlantic City, N. J. Brick, steel, concrete, 3 stories, 34x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, ornamental iron work. Owners will build.

**Apartments (3)**, 18 South Montgomery avenue, Atlantic City, \$40,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Edward Deverell, 49 North Tallahassee avenue, Atlantic City. Brick, steel, concrete, stucco, 3 stories, 23x64 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. A. P. Wilson, Winchester and Providence avenues, Atlantic City, N. J., will sub-let.

**Residence**, Moorestown, N. J. Architect, Emil G. Perrot, Boyertown Building, Philadelphia. Owner, C. S. Boyer, care of architect. Concrete, frame, stucco, 2½ stories, 50x34 feet, (2) wings, hot water heat, electric light, tile work, wood shingle, slate, (alternate) slag and composition, roof, hardwood floors. Architect taking bids due December 20th.

**Warehouse**, New York and Baltic avenues, Atlantic City, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City. Owners, Seashore Supply Co., New York and Mediterranean avenues, Atlantic City, N. J. Frame and concrete, 2 stories, 50x80 feet. Architect taking bids.

**Residence**, Haddonfield, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, W. C. Randall, on premises. Frame, 2 stories, 24x45 feet, slate roof, hardwood

floors, hot water heat, electric light, tile work. Architect taking revised bids.

**Store (alts.)**, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, The Rovner Store, Bridgeton, N. J. Limestone, plate glass, marble work, bulk windows, carpentry and mill work, plastering, painting and glazing. Architect taking bids due as soon as possible.

**School**, Allentown, N. J. Architect, H. A. Hill, Trenton, N. J. Owner, District Clerk, G. Frazier, Board of Education, Monmouth Township, N. J. Brick, 2 stories, 60x116 feet (plumbing, heating, electric separate), slag roof, maple floors, metal lath, bond. Owner taking bids.

**Sunday School**, Haddon Heights, N. J. Architect, Edgar A. Wightman, Heed Building, Philadelphia. Owners, First Presbyterian Church, Haddon Heights, N. J., Rev. J. W. Kerr, Haddon Heights, N. J. Stone and frame, 2 stories, 60x75 feet, shingle roof, steam heat, electric light. Ready for bids in two weeks.

## New Jersey Contracts Awarded

**Bell Telephone**, Seventh and Federal streets, Camden, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, reinforced concrete, 2 stories and basement, 224x73 feet, steam heat, electric light, metal lath, tile and marble work, slag roof, cement floors, waterproofing, bond, iron work. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia.

**Cold Storage Building**, Trenton, N. J. Architect, private plans. Owner, C. W. Brick, Crosswicks, N. J. Concrete and frame, 1 story, 50x50x40 feet, slag roof, cork insulation, cement and cork, cold storage doors, waterproofing, ventilators. Contract awarded J. S. Rogers Co., Drexel Building, Philadelphia.

**Central School**, Deptford Township, Gloucester County, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Board of Education, Almonessing School House, Deptford, N. J. Low bidders: George Shaner & Son, Palmyra, N. J., \$43,985. Electric, E. R. McMahon, Woodbury, N. J., \$1,598. Plumbing, Harry Hecht, West Collingswood, N. J., \$1,793. Heating, Harry Hecht, West Collingswood, N. J., \$5,991.

## Miscellaneous Construction News

**Memorial Library**, Newark, Del. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Delaware School Auxiliary Association, Dupont Building, Wilmington. Brick, stone, steel, concrete, 2 stories and basement, 83x188 feet, slate and slag roof, marble and linoleum floors, central heating, electric light. Owner will build. Work to start at once.

## Miscellaneous Contracts Awarded

**Hospital Building**, Maggie, W. Va. Architects, Paul A. Davis, 3rd, & Dunlap, 1713 Sansom street, Philadelphia. Owners, State Board of Control, J. S. Lakin, president, Charleston, W. Va. Brick, Indiana limestone, concrete, steel, granite, 3 stories and basement, 217x46 feet, slag roof, composition, ce-

ment, tile floors, elevators, metal window guards, terra cotta, tile, iron work and stairs, kalamein doors (heating, ventilating plant, plumbing and electric reserved). Contracts awarded: Foreman & Putman, Marietta, Ohio. Heating and ventilating, Enterprise Steam & Hot Water Heating Co., Baltimore, Md. Electric and plumbing, Steam Electric Engr. Co., Wheeling, W. Va.

(Continued from page 804)

No longer does he place his steel by eye, trusting it to get covered before the inspector shows up. Yet, miraculously, some of the early structures, built by contractors and engineers, neither of whom knew much about the business, are still standing. Sheer good nature, probably, for by all the rules, they should have collapsed long ago.

There is nothing to be ashamed of in entering this new profession. Rather should shame be felt by the youngster who stays out. He will need all the theory he learned at college and then some. He will need all the tact, all the self-reliance, all the courage, all the nerve, all the sporting blood he can muster to make a success in this new field. Most of all he must mingle with men, giving him a confidence in himself which scientific research and straight engineering fails to afford.

Look around. The buildings which line Main Street of every city from the smallest hamlet to that provincial center of the universe—New York City; the bridges which span the tinniest creek and the largest stream; the road over which the latest Weary William—the auto tramp—wends his panhandling way; the houses where young America comes home to sleep, after all other places are closed; all these and more are the work of the contractor. The builder, if you prefer the term.

Is it not a profession worth entering? Who better can leave not one, but many enduring monuments to his skill and energy? As for the financial rewards, of minor consequence, maybe, but of vital importance if a certain pair of brown eyes are to preside over your breakfast table in the near future, just compare the bank accounts of the most successful contractor and the most noted engineer in your locality. If you think this unfair, compare the automobiles used by the poorest members of both professions. The contractor wins, both ways. He may be broke occasionally, for his is still a gambler's game, but he always comes back. The engineer, on the other hand, rarely reaches any point to come back from.

Get into the game!—*National Builders' Association.*

I make it a rule never to write a grouchy letter—I telephone.



## ARE YOU MASTER OF YOUR BUSINESS OR A SLAVE TO IT?

Most contractors who read this heading will say, "What a foolish question. Of course I am master of my business. I built it. Nobody knows more about it than I do. Nobody can tell me how to run it." Do you remember the old fable of the frog and the ox? Someone twitted the frog of being so much smaller than the ox. The frog being a conceited fellow, said, "Pooh, I can make myself bigger than that ox if I want to. Just watch me." Therefore he began drawing in great breaths and puffing himself out like a balloon. He kept this up until suddenly he burst. Some contractors are like the frog. They are so anxious to be rated "big fellows" that they take work by under bidding their competitors without considering if they can finance it or if they have the knowledge, experience, or organization necessary to carry out the work. Their days are numbered. The unfortunate thing about it is that during the process of weeding them out, they take much work from the legitimate contractors and their poor workmanship and lack of business sense brings public criticism and condemnation against the entire construction industry.

Two remedies are apparent, both of them educational. First convince the public that there is no economy in giving work to inexperienced and irresponsible contractors. Second, show these contractors how they ought to do business.

In regard to the public the best means of showing them the advantages of employing established firms is through constant publicity, and through membership in the Contractors' Association. Once convince them that the seal of membership means ability, skill, and responsibility and the public will be looking for members to do their work. On the other hand, the association can give its members all kinds of information and help which will result in greater profits and less risks. Show a contractor how, by a better understanding of overhead, insurance, costs, better buying and quicker deliveries, he can protect his business and how, by establishing a reputation for quality workmanship, he can get business without cutting his bids, and he will become a better competitor and will become proud of his reputation and of his chosen business.

Even among the old-timers and apparently successful contractors in all trades, there is much chance for improvement. There are many contractors who have been in business many years, have an enviable reputation for good work, and show a profit each

year, but they have done little more than earn a fair living. They lose on one job and gain on another and are satisfied if they show a profit of a few thousand dollars at the end of the year. Of course contracting is always more or less of a gamble. It is so dependent on the weather, on stable prices, and on the quality and quantity of labor. But the professional gambler generally bets on sure things. He studies the chances and eliminates all possible risks. The contractor can take a lesson from him. One of the best ways of increasing one's knowledge is by profiting by the experience of others. Perhaps you hesitate about asking questions of competitors for fear that they will conclude that you don't know your business. Better acquaintance through association membership will do much to remove this fear which is generally groundless. Then there is the possibility of consulting the Secretary of the Contractors' Association. He knows how to keep his mouth shut. He can get you much information which will be of great value to you without breaking any confidences. Why don't you try it out?

—Associated Contractors, Boston, Mass.

## WALL TROUBLES

Walls in old houses are liable to give one a lot of trouble and it is well to know how to treat them.

A damp wall is a constant source of trouble, apart from being unhealthy. The damp may be due to a variety of causes, the principal one being porosity and a faulty or absent damp course.

For the porous wall, two coats of transparent petrifying liquid applied in dry weather will answer. A faulty damp course can be remedied by the insertion of a double layer of slates, the upper layer covering the joints of the lower. Where the trouble occurs in a semi-basement, the outer wall should be cemented for the necessary height with sand and cement and a waterproof compound that one may purchase in hardware stores.

Then we have defective plastered walls. Often the use of wall board is the best way to deal with these, and by its means suitable panel effects may be obtained. And it is well to remember that wall board is obtainable not only in widths of 3 ft. and 4 ft. and more and in long lengths but ready-prepared with special finishes, closely approximating various plaster, tile, etc.

The plaster wall that is full of surface inequalities is always an eyesore, yet much may be done to hide its defects. The application of a wall paper having an all-over pattern is effective in this way, but it may be that a pattern is not desired. An alternative method, then, is

to divide the wall surface into large panels and styles, leaving the styles plain, and heavy stippling the panels.

A plaster wall that shows signs of early deterioration is best dealt with by lining it with white ceiling paper. On this two coats of flat wall varnish or water paint will give a satisfactory finish.

For kitchens or other parts of the house where this papering is adopted and a glossy finish is desired, give the paper a coat of size, a coat of glossy oil paint, a coat of flat paint, and finish with glossy enamel.

### *Kitchen Walls*

Strange as it may seem, places like kitchens and pantries which are subject to steam are often more satisfactory when the walls are coated with size distemper or oven lime white. The reason is that these porous grounds absorb the moisture, and so obviate unsightly streaks.

New cement walls should be left at least six months before they are painted. Washing the cement with a 50 percent solution of zinc sulphate crystals in water will also hasten matters when other paints are used. New plaster can be painted with water paints, and these may subsequently be painted or enameled without removal.

The indiscriminate use of one brand of water paint over another has led to a good deal of dissatisfaction in subsequent chipping and scaling. Removal is a tedious business and it is often preferable to apply a thin coat of zinc or white lead paint before renewal.

Asbestos cement sheeting presents suitable grounds for hand or brush painting. The gray material provides an admirable ground for an effect of grey oak, or grey maple. Cool browns may be obtained without altering the color of the ground. But generally speaking, it is a mistake to put successive coats of paint on these wall sheetings. Instead, the white, for instance, may be given a thin transparent glaze of color, grey, green, blue, red and quiet tones will be thus produced. The wall boards may be similarly treated, provided that undue suction is stopped or the staining color kept open—by a fair proportion of either linseed oil or copal varnish being incorporated.

Glazing and staining will often bring the walls into closer harmony with the rest of the room. Whatever the pigment which should be purchased ground in oil use for mixing purposes equal parts of copal oak varnish. Japan gold size, raw linseed oil and turpentine. Add these together before making the stain. On any white ground where the suction has stopped, use a glaze of yellow; scarlet for red tones; cobalt for blue tones, etc. Intermixing may take place, except that of cadmium and ultramarine blue.



In practice, brush the glaze color out bare, so that the ground color shows through. If it is patchy, stiple the whole panel or wall. Finally, take any dry, flat, wide brush—a stiff paperhanging brush will do—and draw it down from the top to bottom of panel. This may be remedied by painting a narrow band, say an inch wide, all around the panel. When dry the wall may have a certain amount of gloss. If objected to, apply after an interval of thirty-six hours, a coat of flat varnish.

#### *Bathroom Walls*

Bathroom walls are best if varnished or gloss enameled; and one may note that there is opportunity for gay color here in place of the usual white. There are prepared sheetings on the market that one may purchase—thin metal sheetings—in sheets 24x18 ins. The walls must be dry, and should be given a coat of oil paint, as this provides a grip for the fixing paste before applying.

When fixing these sheetings snap a center line on each wall and work from it. The butt joints of each row are so arranged that they come directly in the center of the full sheets above in the manner of bonds in brickwork. The paste is spread on the back of the metal with a small trowel and the sheets immediately pressed into position. Part of it will ooze through the joints and should be cleaned off before it sets hard. Clean up finally with a soft rag dipped in paraffin or turpentine.

Another surface treatment for walls is with grass cloth papers, crinkled or embossed canvas papers. The crinkled and embossed papers require careful hanging, otherwise the butts will always be noticeable. Free lime in a plaster wall must be neutralized before papers of this sort are hung, or the color will be destroyed. A coat of petrifying liquid will generally suffice, though on occasion it should be followed by a stout white lining paper. For fixing some of these fabric materials a strong flour paste is needed. Work the material flat from the center outwards with the palms of the hands. (The mouldings should have been previously temporarily removed.) Secure for the time being the edges of the canvass with the drawing pins, and finally fix the mouldings over the material. This makes a neat permanent job.—*National Builders' Association.*

#### STAINED WOOD SHINGLES FOR SIDEWALLS

Of the various materials available for covering the roof and exteriors of wooden buildings, it is doubtful if any have a greater degree of attractiveness, combin-

ed with effective economy, than do high grade stained wooden shingles.

Stained shingles are particularly adaptable to the side walls of the small house. For this purpose they may be secured in any color or shade that may be desired. They can also be laid in various patterns to accentuate certain architectural lines and areas in the wall. Perhaps one of the most popular ways of using shingles for this purpose is to employ the large size unit which is twenty-four inches in length. When this shingle is used a wide exposure may be obtained which may be as much as ten or eleven inches. The effect is that of wide bands running about the building. A similar result is obtained through the use of wide siding sometimes known as Colonial siding. This particular effect is very much desired on certain types of small homes.

Compared with the cost of siding for the covering of side walls, stained wooden shingles often show a considerable saving. The actual amount that can be saved varies with the local markets and with the qualities of the materials that are used. For example, it will be found that there are various costs of siding depending upon what kind of wood is used, its quality, and the width and thickness of the pieces. These different costs apply also to shingles. The variation comes from the kind of wood that is used and its quality and from the size and thickness of the shingle units.

#### *Economy in Shingled Side Walls*

One of the prominent shingle manufacturers has made a detailed investigation of the comparative costs of ready stained wooden shingles and siding. He has compared the finest grade of large red cedar shingles with wide Colonial siding of the same quality in a use that will give about the same architectural effect. The saving shown for the shingles amounted to something over \$150 on a small house of two stories approximately 25 feet by 30 feet in size. The saving comes principally through the decreased cost in the material itself and in the charge for painting.

This brings out one of the greatest advantages of stained wooden shingles as applied to a side wall—namely that they do not require frequent repainting. The stain penetrates the shingles and lasts for an indefinite period. The quality of the stain, it must be understood, is something more than that of color. It serves as a protection for the wood, making it last much longer.

#### *How Shingles Differ*

Of course it is not to be inferred that any kind of shingle will do for your walls or for your roof. There is as much difference between grades of shingles as

there is in clothing. High grade wooden shingles are made from wood that is clear from knots and that is sawed like the best grade of soft wood flooring. That is to say, it is edge grain or straight sawed. The annual rings make parallel lines down the long dimension of such shingles. This makes them much more durable. These edge grain shingles present a surface which readily absorbs and holds the protective stain. The regular quality of the wood is such that the shingles do not warp, curl, or split as will the flat grain, knotty shingles. When it is understood that if a shingle starts to curl that is the beginning of the end, it will be seen how desirable it is to use only the quality that will lie flat at first and that will stay flat. Properly stained, high grade shingles applied as they should be, whether to the wall or to the roof, should last a long period of years.

In regard to the application of wooden shingles on the roof, it must be said that it is the low-grade poorly applied wooden shingle roof that has been the fire menace—not the high-grade properly applied roof of this material. As a matter of fact, a number of experiments conducted by reputable authorities have shown that the tight wooden shingle roof is a good protection for your house. It is by no means the highly inflammable affair that it is often pictured to be.

One of the most commonly neglected features is the matter of nails. Good zinc coated nails should always be used for wooden shingles. Often the shingles are blamed for a faulty roof whereas in reality the nails are at fault. Certainly it is folly to attach a high-grade roofing material, like the best wooden shingles, with cheap iron nails which will rust out in a short span of years and allow the shingles to work loose. For this reason zinc coated nails only should be used. They cost perhaps a few dollars more for the whole house but they will not rust and will hold the shingles in place about as long as the shingles themselves will last, which should be for a long term of years.

When shingles are stained in the proper manner with good colors, the expense of recoloring and yearly painting is reduced to the minimum. Of course there will have to be some staining from time to time, but not as much of this as is necessary for wood siding.

Do not think that you can get any of these suggested benefits from every ordinary wooden shingle. It must be of the best grade and the color must be good. The method of applying the preservative is important. Reputable manufacturers have perfected stains, preservatives and methods to conserve your interests. Do not waste your money on an inferior shingle.—*The Small Home.*



# Reference Directory for Architects, Builders and Owners

## ARTESIAN WELLS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## ARTISTS AND ARCHITECTS' SUPPLIES.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINTS.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BLUE PRINT PAPER.

Blue Print Shop.....1520 Sansom St., Phila.  
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## BOILER AND PIPE COVERINGS.

Keasbey & Mattison Co. ....1927 Market St., Phila.  
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## BRICK (Face, Common, Paving).

Ketcham, O. W. ....121 N. 18th St., Phila.

## BUILDERS.

Mitchell Bros. ....2125 Race St., Phila.

## BUILDING NEWS.

Daily Building News.....Perry Bldg., Phila.

## BUILDERS' SUPPLIES.

The Van Sciver Corporation,  
The Parkway at 24th St., Phila.

## CEMENT.

The Van Sciver Corporation,  
The Parkway at 24th St., Phila.

## CEMENT WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## COLD STORAGE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## COLUMNS (Metal).

Pearce Fireproof Co. ....1345 Arch St., Phila.

## COMPOSITION FLOORING.

Penna. Flooring & Woodoleum Mfg. Co.,  
34 S. 17th St., Phila.

## CONCRETE TILE.

Duntile Concrete Mfg. Co. ....Darby, Pa.  
Gramm, Price, Turner, Inc.,  
176 E. Tulpehocken St., Phila.

## CONCRETE WORK.

Massiah, Frederick..Juniper and Cypress Sts., Phila.

## CORK FLOORING

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## CURTIS WOODWORK.

Gillingham Co. ...Norris and Richmond Sts., Phila.

## CUT STONE.

Cosenza Albert,  
N. E. Cor. 16th and Ellsworth Sts., Phila.

## DAILY BUILDING NEWS.

Building News Pub. Co. ....Perry Bldg., Phila.

## DAMP PROOFING.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Anti-Hydro Waterproofing Co. ....Newark, N. J.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## DRAWING MATERIALS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## ELEVATOR DOOR CONTROLLERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## ELEVATOR DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## EXCAVATING.

McCarrick Bros. ....3138 N. 24th St., Phila.  
McCool, John...Broad St. and Passyunk Ave., Phila.  
McDevitt, John F.....1403 N. 20th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## FENCES.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.  
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.

## FIREPROOFING.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## FLOOR HARDENER.

Adensite Co., Inc. ....321 Land Title Bldg., Phila.  
Builders' Specialty Co., Inc..1844 N. Front St., Phila.  
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.  
Gibson, Thomas F.....20 S. 15th St., Phila.  
Truscon Laboratories...1432 S. Penn Square, Phila.

## FLOOR PLATES.

Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## FLUE LINING.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## FURNACES AND RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Fleck Bros. ....44 N. 5th St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## GARAGE DOOR HANGERS.

Wagner Mfg. Co. ....328 Witherspoon Bldg., Phila.

## GARAGE HEATERS.

Fleck Bros. ....44 N. 5th St., Phila.

## HAULING CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.

## HEATING CONTRACTORS.

Bowers Bros. & Co. ....2015 Sansom St., Phila.

## HEATING BOILERS.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.

Fleck Bros. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.

## HOLLOW METAL WINDOWS.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## HOLLOW TILE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.  
Ketcham, O. W. ....121 N. 18th St., Phila.

## HOT WATER GENERATORS.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## HOUSE CLEANING.

Keystone House & Window Cleaning Co.,  
1219 Filbert St., Phila.

## HOUSE MOVING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## INSULATION.

Keasbey & Mattison Co. ....1927 Market St., Phila.

## INSURANCE.

Insurance Co. of North America,  
3rd and Walnut Sts., Phila.  
Philadelphia Fire & Marine Ins. Co.,  
1711 Chestnut St., Phila.

## IRON AND STEEL BARS AND PLATES.

Lukens, Lewis N. ...19th and Washington Ave., Phila.  
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

## KITCHEN CABINETS.

Housel, J. W. ....34 S. 16th St., Phila.

## LEVELS.

Robbins, Chas. H., Co. ....1729 Sansom St., Phila.  
Warren-Knight Co. ....136 N. 12th St., Phila.  
Weber, F., Co. ....1125 Chestnut St., Phila.  
Weil, J. H., Co. ....1315 Cherry St., Phila.

## LIGHT IRON CONSTRUCTION.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## LINOLEUM.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LINOTILE.

Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

## LUMBER.

Felin, Chas. F., & Co.,  
Old York Road, above Butler St., Phila.  
Gillingham Co. ...Norris and Richmond Sts., Phila.  
Ketcham, Howard.....3rd and Girard Ave., Phila.  
Tague, Jas. E., Co. ...10th and Columbia Ave., Phila.

## MARBLE AND MOSAIC.

Cosenza Albert,  
N. E. Cor. 16th and Ellsworth Sts., Phila.  
Italian Marble Mosaic Co. ....433 Spruce St., Phila.  
Penna. Tile & Mosaic Co. ....1531 Cherry St., Phila.  
Roman Mosaic & Tile Co. ....435 Green St., Phila.

## METAL LATH.

Pearce Fireproof Co. ....1345 Arch St., Phila.

## METERS.

Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

## MILLWORK.

Gillingham Co. ...Norris and Richmond Sts., Phila.

## ORNAMENTAL IRON.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Pettit, Frank, Ornamental Iron Works,  
1505 N. Mascher St., Phila.

## PAINTS AND VARNISHES.

Truscon Laboratories...1432 S. Penn Square, Phila.

## PAPERHANGING AND DECORATING.

Sukerman, S. ....2958 N. 22nd St., Phila.

## PAVING BRICKS.

Ketcham, O. W. ....121 N. 18th St., Phila.

## PHOTOSTATS.

Weber, F., Co. ....1125 Chestnut St., Phila.

## PLUMBING FIXTURES.

Fleck Bros. Co. ....44 N. 5th St., Phila.  
Keystone Supply & Mfg. Co. ...949 N. 9th St., Phila.

## RANGES.

Borden Stove Co. ....1026 Arch St., Phila.  
Cox, Abram, Stove Co.,  
American and Dauphin Sts., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REFRIGERATORS.

Borden Stove Co. ....1026 Arch St., Phila.  
Miller, Henry M. ....46-48-50 N. 2nd St., Phila.

## REINFORCING BARS.

Lukens, Lewis N. ...19th and Washington Ave., Phila.

## ROOFING SLATE.

Chapman Slate Co. ....Bethlehem, Pa.

## ROOFING TILE.

Ketcham, O. W. ....121 N. 18th St., Phila.

## SAFETY GUARDS.

Berko Bros. ....Randolph and Wood Sts., Phila.  
Cyclone Fence Co. ....20 S. 15th St., Phila.

## SAND AND GRAVEL.

The Van Sciver Corporation,  
The Parkway at 24th St., Phila.

## SEWER PIPE.

Clausen, Wm. H. ....27th and Diamond Sts., Phila.

## SHEET METAL AND ROOFING.

Tinney, Walter H., Co.,  
63rd and Woodland Ave., Phila.

## SHEETROCK (Wall Board).

Pearce Fireproof Co. ....1345 Arch St., Phila.  
Tague, Jas. E., Co. ...10th and Columbia Ave., Phila.

## SHORING.

Stevens & Weed, Inc. ....3036 Chestnut St., Phila.

## SOUNDINGS.

Artesian Well Drilling Co.,  
Aramingo and Girard Ave., Phila.  
Ridpath & Potter Co.,  
S. W. Cor. 22nd and Cambria Sts., Phila.

## STAINED AND ART LEADED GLASS.

Uhrig Brothers.....528 E. Wishart St., Phila.

## STAIRS (Sheet Steel).

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STEAM SHOVEL CONTRACTORS.

McCarrick Bros. ....3138 N. 24th St., Phila.  
McCool, John...Broad St. and Passyunk Ave., Phila.  
McDevitt, John F. ....1403 N. 20th St., Phila.  
Morrissey Bros. ....4345 N. 7th St., Phila.

## STEAM SPECIALTIES.

Edwin Elliot & Co. ....1011 Chestnut St., Phila.

## STEEL SASH.

McFarland-Meade Co.,  
70th and Kingsessing Ave., Phila.

## STONE.

Brenz, Wm. P. ....5321 Baltimore Ave., Phila.  
John D'Lauro.....55 E. Mermaid Lane, Phila.

## STUCCO.

Daniel C. Sinclair.....East Lansdowne, Pa.

## TERRA COTTA (Architectural).

Baird, A. S. ....Otis Bldg., Phila.  
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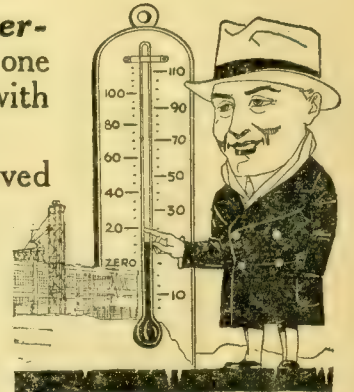
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XXXVIII, No. 52  
December 26, 1923

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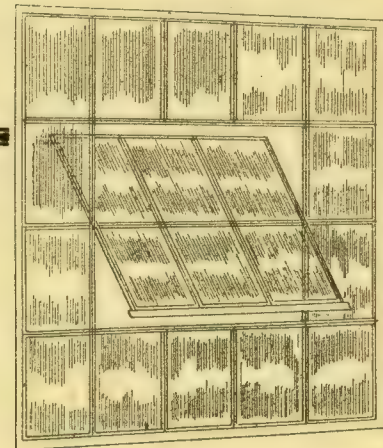
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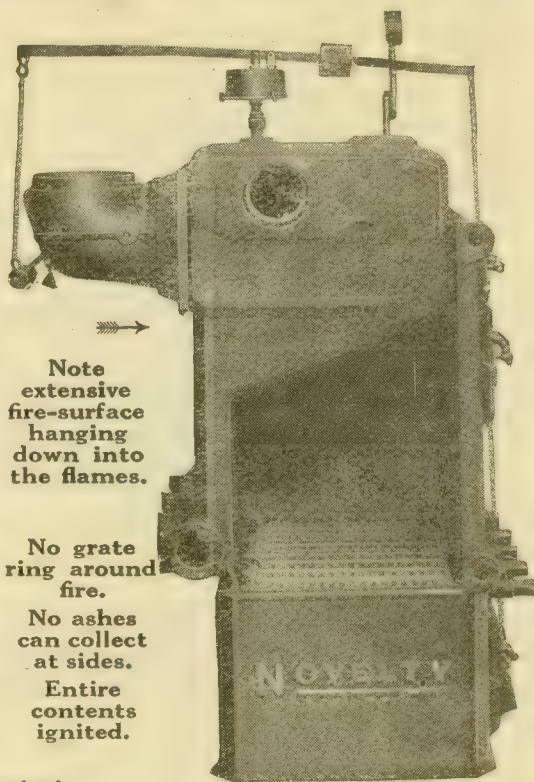
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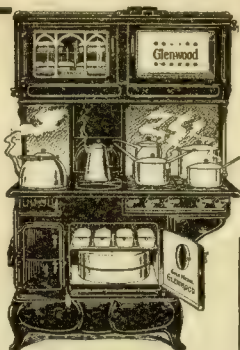


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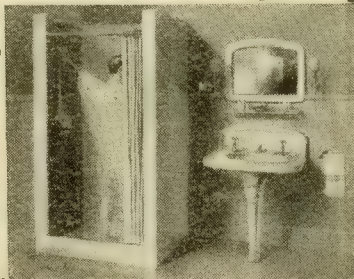
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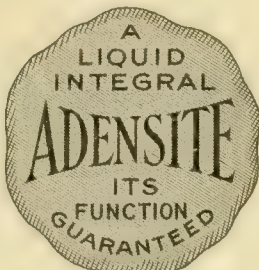
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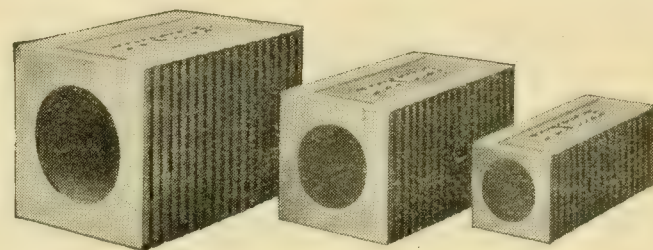
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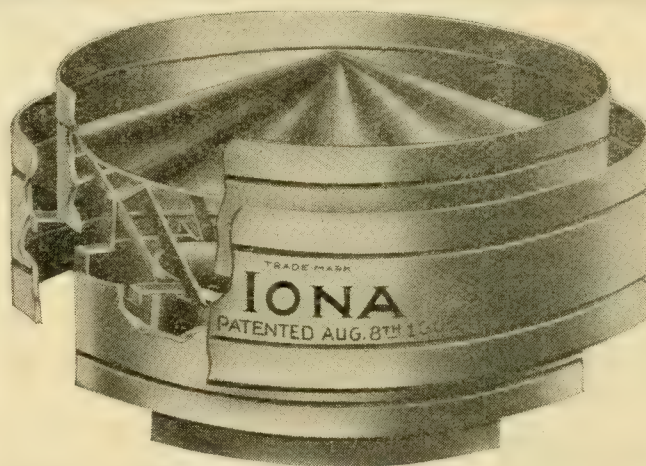
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Devoted to the Advancement of American Architecture, Structural  
Engineering and the Building Trades

VOLUME XXXVIII  
Number 52

PHILADELPHIA  
December 26, 1923

## BUILDERS' GUIDE

OFFICES, PERRY BUILDING (Suite 824-825-826)  
Sixteenth and Chestnut Sts., Philadelphia, Pa.

PUBLISHED WEEKLY  
BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA  
Louis S. DeLone.....President  
H. A. Lang.....Vice-President  
Joseph M. DeLone..... Secretary and Treasurer

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## As The Editor Sees It



### VIEWING THE CONSTRUCTION INDUSTRY

*Elements Engaged in Building Operations  
Cited as Gaining Marked Progress  
in Co-operation*

By JAMES J. DAVIS  
Secretary of Labor

OUR times have witnessed tremendous steps in the direction of organization and co-operation in industry. Probably no single group in our daily life has demonstrated greater progress toward industrial co-operation than your group—the construction industry. We are approaching the day when labor shall be really free, when industry shall be really unshackled. The day of master and man in American industry is past and gone. It is my hope that with that day there will disappear the period of discord and strife in American industrial life, and that we shall enter upon an era of intelligent co-operation based on mutual interests, mutual good-will and mutual understanding between the worker and the employer. We find many forces working toward this end in America today, as time after time we demonstrate the futility of fratricidal conflict between those who manage industry and those whose labor makes industry possible. We are learning, in the sad school of bitter experience, that industry is a single structure, and that a house divided against itself shall not stand.

Everywhere, and in every industry,

employers and workers are learning that they stand no longer in the relation of master and servant, as they stood for so many centuries, but that they are co-workers, partners, whose joint and mutual interests march side by side. They are coming to know that the prosperity of industry depends upon production and that industrial warfare is production's greatest enemy. To end industrial warfare we must have understanding and co-operation between the men who manage industry and the men upon whose labor industry is founded. The greatest prosperity, for employer and employed, will be found in that industry where the employer knows intimately the problems and needs and aspirations of the workers, and where the workers have a sympathetic understanding of the difficulties and discouragements and purposes of the employer. Many of our present day industrial difficulties were unknown in the days when industry, organized on a smaller scale, permitted closer personal relations between the men who managed industry and the men who worked in it. The successful surmounting of these difficulties lies in developing some system whereby that close personal relationship may be restored or some adequate substitute found for it.

We are gradually learning throughout American industry that employer and employee must stand or fall together, that one cannot long prosper at the expense of the other. If one gains, both must gain.

If one loses, both must lose. If one dies, both must die.

### *In Valuable Position*

No American industry can demonstrate so clearly as can the construction industry that need for organization and co-operation which is the greatest requirement in our modern civilization. The days when a single mason and a single carpenter went to work side by side to build a house are gone forever. The construction of a building today is as highly integrated an industry as there is in our whole scheme of things. A modern skyscraper, costing millions in its construction, calls together thousands of men in two score of widely differing crafts, each with his own special qualifications and with his own special interest in the work in hand. It is only through the closest cooperation and the most highly developed organization that so tremendous an undertaking can be carried through successfully. When every individual concerned in so vast a task can be assured that his interests and the interests of all who work with him or for him will be properly safeguarded, we can be sure that the project will move forward smoothly and rapidly. Both employer and employee throughout the industry will benefit through co-operation, for neither can succeed if the other fails.

Your industry faces a tremendous task. Upon it rests the responsibility for regaining in construction all of those years which, during the World War, were lost in destruction. I have seen

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estimates which calculated the deficiency in construction at between ten and twenty billions of dollars. In other words, we lack structural facilities to that amount which would have been provided during recent years if there had been no war. Of this amount it is estimated that five billions of dollars are now needed for the construction of homes. We are short some 1,500,000 homes in this country. That is, there are 1,500,000 American families who are waiting for the construction industry to provide them with buildings in which to make their homes. But construction costs must be kept down if these families are to be able to occupy new homes. These figures show merely what we have lost and what we must make up. They do not take into account our annual requirements by reason of growth of population and for replacement purposes and immigration.

To perform this great task, you have at your command great resources. The construction industry today is certainly second only to that of agriculture in its economic importance—in the actual amount of money involved in its operations. In its many ramifications it employs a great army of men, more than 11,000,000 of our people being directly or indirectly dependent upon the construction industry. Throughout our commercial and industrial life men look upon the construction industry as the great barometer of business. In the volume of our building permits we read the index of our financial and industrial progress. When construction gains, we know prosperity is with us. When building lags, we know that conditions are bad. Thus construction bears a vital importance in relation to our whole industrial fabric. It is the great influence for good or bad in our financial progress. Anything that we can do to stabilize, to better conditions in the construction industry, will react for the betterment of our whole industrial fabric.

The transcendent importance of the building industry in our national life is seldom brought to the attention of the average layman. It was forcibly brought home to me by a recent survey made by the Bureau of Labor Statistics of the Department of Labor of construction in sixty-eight cities of 100,000 population or more in the United States. This survey showed that in those cities alone the building permits issued indicated an expenditure of \$3,251,887,696 in eighteen months, during 1922 and the first six months of 1923. The figures showed, too, that construction is on the increase. The first six months of 1922 showed 156,974 permits at an estimated cost of \$954,658,587. The last half of the year showed 160,223 permits at a cost of \$1,011,788,029. The first half of this year showed 193,027 permits and a total cost of \$1,285,441,180. Twenty-two per-

cent. of all the skilled and unskilled labor in America is engaged in the building industry, and the building bill of this country amounts to about \$200 a year for every family. The industry, in its demands for material, calls for the service of about 250,000 freight cars on our railroads.

#### *Cannot Be Isolated*

No industry so important as this one can be considered as a thing by itself. It must be thought of in relation to the interests of the community generally. The construction industry concerns not alone labor, materials, contractors, and other elements of the industry, but the public as well. Ultimately the fate of the industry, like any other productive industry, depends upon the public, for the public is the consumer—of buildings just as it is of shoes, or cotton goods or any other product. No industry can succeed unless it wins and keeps the confidence of the public. For upon this confidence depends the willingness of the public to deal with it.

There have been in the past many deplorable conditions in the building industry. The whole system of contract construction and its relations with labor have been under charges particularly in our larger cities. I hope, and I believe that these evil practices are all behind us, that the building industry has seen the light, and is on its way toward that ultimate goal of all industry, the era of good-will. We are making progress toward the true era of good-will, the period of the golden rule in industry. I see the forward movement every day in my work as Secretary of Labor. I know that in almost every line of endeavor the men who work for a living and the men who manage the industries in which they are at work are constantly coming closer together, are constantly gaining a better appreciation of each other's problems. It is clear to me that you are doing that in the construction industry.

#### *Believes in Principle*

I am a firm believer in the principle of trade unionism. It is fundamentally sound, but, like every other great human institution, it has its faults, and it can be abused. Not many men in any industry today will quarrel with the trade union principle. But some of its abuses have stirred many men in the management of industry against it. One evil that has crept into our trade union system, an evil which in the building industry has in the past grown to deplorable proportions, is the jurisdictional dispute. As a trade union worker, I honestly believe that the jurisdictional dispute has done more injury to the cause of organized labor in the United States than any other single thing. The spectacle of workers employing the strike weapon against their own

(Continued on page 829)

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CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

✓ **Sales and Service Station**, Forty-eighth and Woodland avenue, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, H. Slater, care of architect. Brick, 1 story and basement, 16x30 feet, slag roof, cement floors, electric light. Plans in progress. Architect will be ready for bids in a week.

**Moving Picture Theatre, Stores and Apartment**, Fifty-sixth and Lansdowne avenue. Architect, name withheld. Owners, Sarshik & Isdamer, Pennsylvania Building, Philadelphia. Lot 200x100 feet. Plans in progress. Too early for details.

✓ **Apartment House**, Lincoln Drive and Emelen street, Philadelphia. Architect, T. B. Lippincott, 11 South Sixteenth street, Philadelphia. Owner, Wynnefield Taylor, Pelham Court, Germantown, Pa. Concrete, steel, brick and limestone, 7 stories, 128x48 feet, slag roof, composition and hardwood floors, vapor heat, electric light, tile and marble work, metal sash, fire tower, tin clad doors, artificial stone, terra cotta, oil burning equipment, automatic elevators. Plans in progress.

✓ **Apartment House**, Nineteenth and Delancey streets, Philadelphia. Architects, Hoffman Henon, Finance Building, Philadelphia. Owner, name withheld. Brick, steel, concrete, limestone, 8 stories, 50x60 feet. Plans in progress.

✓ **Substation (add.)**, 106-112 North Eleventh street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Preliminary plans in progress.

✓ **Garage and Show Room**, Fifth and Bristol streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Brick, 1 story, 66x62 feet. Plans in progress.

✓ **Gymnasium (alts. and add.)**, Thirty-eighth and Market streets, Philadelphia. Architect, W. W. Donohue, 1120 Locust street, Philadelphia. Owners, Knights of Columbus, on premises. Plans in progress.

✓ **Apartment House**, 331 South Smedley street, Philadelphia. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, Paul G. Basehore, care of archi-

tect. 3 stories, contains 15 apartments, with baths. Plans in progress.

**Operation of Residences**, Smedley street, Sixty-seventh, Sixty-eighth avenue, Philadelphia. Architect, Karl F. Otto, 1829 Arch street, Philadelphia. Owner, J. Bateman, care of architect. Brick, 2 stories, 16x38 feet, hot water heat, electric light, tile work, slag roof, hardwood and pine floors, garages in basement. Plans in progress.

**Residences (12)**, Sixty-seventh street, Smedley to Seventeenth street, Philadelphia. Architect, Karl F. Otto, 1829 Arch street, Philadelphia. Owners, J. Bateman & Son, care of architect. Brick, 2 stories, 20x33 feet, hot water heat, electric light, tile work, slag roof, hardwood floors, garages in basement. Plans in progress.

**Residence (2-family)**, Camac and Medary streets, Philadelphia. Architect, A. Mueller, 901 Walnut street, Philadelphia. Owner, J. W. Allen, 900 Walnut street, Philadelphia. Brick, 2 stories, 32x39 feet, slag roof, hardwood and composition floors, vapor heat, electric light, tile work. Plans in progress.

**Apartment House**, Frankford, Pa. Architect, S. D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Hardwood floors, tile work, plumbing, metal bulks. Plans in progress.

**School**, B and Wyoming avenue, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plans about to be started.

**Residences (22), Stores (5)**, Fifty-fifth and Springfield avenue, Philadelphia. Architect, Karl F. Otto, 1829 Arch street, Philadelphia. Owner, J. Bender, 1817 South Fourth street, Philadelphia. Brick, 2 stories, 16x44 feet, 16x37 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basement. Architect taking sub-bids.

**Residences (12)**, Fifty-fourth and Montgomery avenue, Philadelphia. Architect, I. W. Levin, 1001 Chestnut street, Philadelphia. Owner, H. Dinerman, 5421 Morse street, Philadelphia. Brick, 2 stories, hot water heat, electric light, tile work, slate and slag roof, hardwood floors, separate garages. Owner taking sub-bids.

**Residences (21)**, Thirty-third and Reed

streets, Philadelphia. Architect, private plans. Owners, Louis Cohn & Son, 1904 North Twelfth street, Philadelphia. Brick, electric light, pine floors, slag roof. Owners taking sub-bids due as soon as possible.

✓ **Telephone Building**, Rising Sun and Cottman street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, cut stone, steel, 3 stories and basement, 101x64 feet, steam heat, electric light, metal lath, tile and marble work, hollow metal sash, bond, waterproofing, kitchen equipment, cement floors, slag roof. Architect taking bids due December 31st.

**Apartment House**, Delancey and Bouvier streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George P. Sales, care of architect. Brick, steel, terra cotta, 4 stories, 39x80 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble work (elevator reserved), Murphy beds, galvanized iron bays, kitchen equipment, fire tower. Architects taking bids due January 8th.

✓ **Store (lts.)**, 1528 Chestnut street, Philadelphia. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, William H. Steigerwalt, 1420 Chestnut street, Philadelphia. Bond, plastering, marble and tile work, structural steel, iron work, brick, cut stone, painting and glazing (electric work, elevators, plumbing, heating, marble floors reserved). Architect taking bids due January 7th.

**School**, Rhawn and E street, Fox Chase, Philadelphia. Architects, Hoffman Henon Co., Finance Building, Philadelphia. Owners, St. Cecilia's Roman Catholic Church, Rev. J. S. Burke, on premises. Brick, cut stone, steel, limestone, 2 stories, 53 feet, 8 inches x 113 feet, 11 inches (plumbing, heating, electric, permanent septic tank), slag roof, maple floors, metal lath, tile and terrazzo work, roof ventilators, terra cotta, ornamental iron work. Architect taking revised bids due December 27th.

✓ **Hospital (alts. and add.)**, Allegheny and Tulip streets, Philadelphia. Architect, Edward Yeo, 225 Sydenham street, Philadelphia. Owners, Northeastern Hospital, on premises. Brick, concrete and steel, 3 stories and basement, 40x45 feet, slag roof, cement floors, safety treads, iron work, bond, rolled steel sash, tile, marble and terrazzo work, metal lath. Architect taking bids due December 27th.

✓ **Library (alts. and add.)**, 218 South Nineteenth street, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia City Institute, on premises. Brick, cut stone, 2 stories, 45x40 feet, slag roof, oak and Stedman naturized floors, plumbing, metal lath, tile and marble work, hollow metal sash, copper skylights, iron work. Architect taking bids due December 28th.

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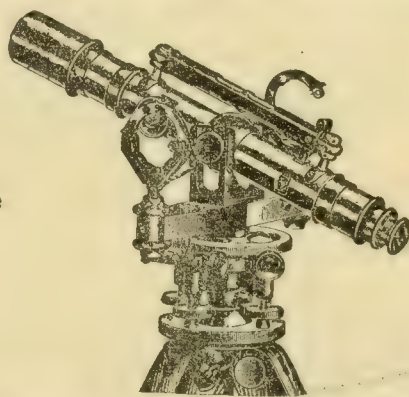
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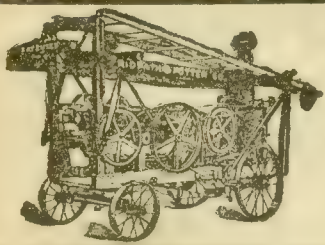
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**Mill Buildings,** Northwest Corner Allegheny and Boudinot street, Philadelphia. Architect, E. H. Stopper, Fuller Building, Philadelphia. Owners, Concordia Silk Mills, W. Ewald, on premises. Reinforced concrete, 3 stories, 52x107 feet. Architect taking bids.

**Miscellaneous Schools,** Philadelphia. Various schools, electric work. M. Disston School, flag pole. Central High School Annex No. 1, repairs and painting roof. Various schools, general repairs. Owners taking bids due January 3rd at noon.

**Schools (2),** Fourth and George and Sixth and Carpenter streets, Philadelphia. Architect, private plans. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due January 3rd at noon.

**Supplies, Philadelphia School District.** Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Furnishing lumber, refrigerators, rope chain mats, etc. Owners taking bids due January 3rd at noon.

**Residences (35),** Fifty-seventh and Sansom streets, Philadelphia, \$236,000. Architect, private plans. Owner, A. J. Boylan, 5149 Lancaster avenue, Philadelphia. Brick, 2 stories, (4) 16x40 feet, (15) 16x25 feet, 12x20 feet, and (16) 16x31 feet, 12x8 feet, hardwood floors and pine floors, hot water heat, electric light. Owner will build.

**Residences (36),** West side Cedar Park avenue, North of Pittville street, \$182,000. Architect, private plans. Owner, Isaac J. Miller, 4764 North Tenth street, Philadelphia. Brick, 2 stories, 15x30 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Warehouse,** East side Third street, South of Somerset street, \$73,000. Architect, private plans. Owners, E. F. Houghton Co., 240 West Somerset street, Philadelphia. Brick, 3 stories, 45x117 feet, slag roof, steam heat, electric light. Owners will build.

**Residences (6),** South side Sixty-eighth avenue, West of Seventeenth street, \$7,500 each. **Residences and Stores (2),** Sixty-eighth avenue and Seventeenth street and Sixty-eighth avenue and Bouvier street, Philadelphia, \$8,000 each. Owner, George Ungerer, 4921 North Fairhill street, Philadelphia. Brick, 2 stories, (6) 20x29 feet, 9x10 feet, and (2) 20x39 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residence and Store (alts. and add.) and Garage,** 4515 Paul street, \$14,000. Architect,

Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, L. O. Davis, 4515 Paul street, Philadelphia. Brick, 2 stories, 12x38 feet, garage, 1 story, 19x102 feet, 12x19 feet, slag roof, hardwood, pine and cement floors, electric lighting, tile work. Owner will build.

**Residences (6),** Sixty-sixth avenue and Fairhill street, Philadelphia, \$49,000. Architect, private plans. Owners, Kerr & Witty, Northwest Corner Thirteenth and Cambria streets, Philadelphia. Brick, 2 stories, 16 feet, 4 inches x 40 feet, (4) 16x29 feet, 9x10 feet, hot water heat, electric light, hardwood and pine floors, tile work. Owners will build.

**Tank House,** Northeast Corner Eighty-second and Bartram avenue, Philadelphia, \$15,000. Architect, private plans. Owners, Quaker Industrial Alcohol, Inc., on premises. Brick, 1 story, 20x62 feet. Owners will build.

**Residences (6),** East side Henly street, North of Carpenter street, \$12,000. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Stone, 3 stories, 18x38 feet, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Residences (4),** East side Loretta street, North of Griffith, \$5,000 each, and (1) North side Tyson street, East of Rising Sun avenue, \$5,200. Owner, George Krewson, 330 Franklin street, Cheltenham, Pa. Frame, (4) 3 stories, 16x40 feet, and (1) 1 story, 26x47 feet, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Garages (14),** South side Durham street, Anderson to Crittenden, \$9,800 total. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Brick, 1 story, 14x22 feet, slag roof, cement floors. Owner will build.

**Apartment (alts.),** 4615 Springfield avenue, Philadelphia, \$7,500. Architect, Oliver R. Parry, 1524 Sansom street, Philadelphia. Owner, Arthur Treaston, 1256 North Tenth street, Philadelphia. General alterations. Owner will build.

**Residences (14),** North side Sixty-eighth avenue, West of Sixteenth street, \$6,000 each. Architect, private plans. Owner, Benjamin Levecoff, 4231 Viola street, Philadelphia. Brick, 2 stories, 16x36 feet, 20x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Owner will build.

**Residences and Stores (2),** 6508-10 Woodland avenue, Philadelphia, \$6,500 each. Architect, private plans. Owners, Woodland Realty Co., 6228 Woodland avenue, Philadelphia. Brick, 2 stories, 18x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Owner will build.

**Factory (alts.),** Northeast Corner Girard avenue and Berks street, \$5,000. Architect, private plans. Owners, George W. Weiss & Co., 1216 North Mascher street, Philadelphia.

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**Apartment House**, Northwest Corner Forty-third and Chestnut streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, I. Newton Smith, Fortieth and Walnut street, Philadelphia. Brick, steel, concrete, limestone, terra cotta, 4 stories and basement, steam heat, electric light, tile and marble work, slag roof, hardwood and tile floors, (2) automatic elevators, roof ventilators, fire doors, ornamental iron work. Architect taking bids due January 5th at noon.

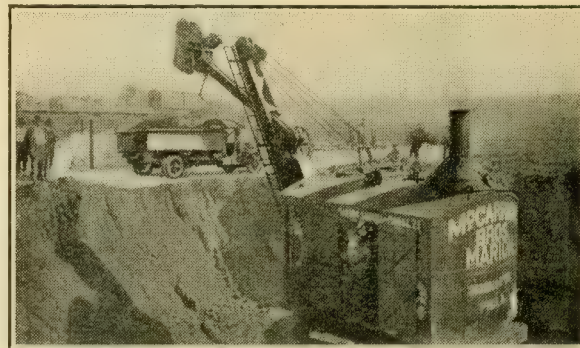
**Alterations**, 2246-48 North Broad street, Philadelphia. Architects, Weber & Wurster, 1530 Locust street, Philadelphia. Owner, H. Kibber, on premises. Architects taking bids due December 27th.

**Apartment House**, Oxford Pike and Saul street, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George P. Sale, care of architect. Brick, concrete, cut stone, steel, 4 stories, 35x75 feet, hot water heat, electric lighting, metal lath, tile and marble work, slag roof, oak and pine floors, terra cotta, copper bars. Archi-

teets taking bids due January 8th.

**East Germantown Recreation Center**, East Cheltenham avenue near Anderson. City Architect, John P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Iron fence, painting, concrete work, surfacing and piping. Ready for bids.

**Shelter Building (Hanover Playground)**, East Columbia avenue and Earl and Thompson streets, Philadelphia. City Architect, J. P. B. Sinkler, Twelfth and Chestnut streets, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Painting, glazing, plastering, concrete and cement, steel and iron work, carpentry and mill work, terra cotta, hardwood, asbestos shingle roof, plumbing and electric work. Low bidders: I. S. Kaufman, North American Building, Philadelphia, \$6,660; E. C. Durrell, Fifth and Cheltenham avenue, Philadelphia, \$6,733; plumbing, Charles McCoy, 18 North Nineteenth street, Philadelphia, \$1,447; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, \$785.



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## Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

**Office Building (add.)**, Chestnut street, Sixth and Seventh streets, Philadelphia, \$3,000,000. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owners, Public Ledger Co., C. H. K. Curtis, Independence Square, Philadelphia. Brick, steel, concrete, stone, granite, limestone, terra cotta, 11 stories, electric lighting, steam heat, tile and marble work, elevators. Contract awarded Doyle & Co., 1519 Sansom street, who is ready for sub-bids.

**Store Building**, 1721-29 Chestnut street, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Albert E. Greenfield, Southeast Corner Fifteenth and Chestnut streets, Philadelphia. Brick, concrete, limestone and cut stone, 2 stories, 115x184 feet, slag roof, cement floors, metal lath, tile and marble work, kalamein doors, bond, dampproofing, terra cotta, iron work (heating, electric work and plumbing reserved). Contract awarded John Schnabel, Denckla Building, Philadelphia.

**Store and Apartment (alts. and add.)**, Southeast Corner Sixteenth and Christian streets, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Benjamin Landers, Northwest Corner Sixteenth and Christian streets, Philadelphia. Brick, steel, 2 stories, 16x12 feet, slag roof, composition and oak floors, hot water heat, elec-

tric light, tile and marble work, plumbing, metal ceilings, iron work. Contract awarded Sandberg & Naulty, 909 Walnut street, Philadelphia.

**Residences (2) and Garage**, Westford Road, North of Geneva street, \$18,000. Architect, private plans. Owner, Martin B. Johnson, 1610 Spruce street, Philadelphia. Hollow tile, 2 stories, 16x45 feet, garage, 1 story, 15 feet, 4 inches x 25 feet, 4 inches, hardwood, pine and cement floors, electric lighting. Contract awarded to Alex. E. Voigt, 6100 North Tenth street, Philadelphia.

**Alterations**, Southwest Corner Fifth and Market streets, Philadelphia, \$14,000. Architect, G. B. Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Steam heat, electric light, metal lath, marble work, tin roof, painting and glazing, oak and maple floors, plumbing, metal ceilings, ornamental iron work. Contract awarded George H. Evans, 105 North Thirteenth street, Philadelphia.

**Apartment (alts. and add.)** 2121 Columbia avenue, Philadelphia, \$10,250. Architect, pri-

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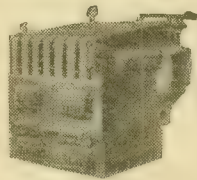
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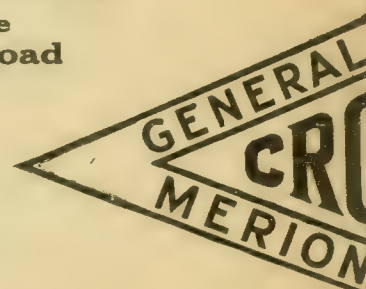
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vate plans. Owner, Joseph Eisenberg, on premises. Brick, 1 story add., 22x33 feet, general alterations. Contract awarded to M. Cherry, 137 North Tenth street, Philadelphia.

**Residence**, Northwest Corner Lawnton avenue and Gates street, Philadelphia, \$10,000. Architect, private plans. Owner, Grace B. Cornman, 7350 Ridge avenue, Philadelphia. Stone and frame, 2 stories, 32x34 feet, asbestos shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Griffith H. Yarnall, 749 Manatawna avenue.

**Manufacturing Building (alts. and add.)**, 1819-25 North Ninth street, \$10,000. Architect, private plans. Owner, Frank G. Leaf, on premises. Brick, 2 stories, 60x55 feet, general alterations. Contract awarded to Tony Olivieri & Bro., 1578 Adams avenue.

**Manufacturing Building**, 3420 Market street, Philadelphia, \$9,950. Architect, private plans. Owner, W. H. J. Hipple, Sr., Drexel Hill, Pa. General alterations. Contract awarded to R. Samuel, Drexel Hill, Pa.

**Garage**, North side Benecet street, East of Ardleigh street, \$8,000. Architect, private plans. Owner, John Rutledge, on premises. Brick, 1 story, 50x55 feet, slag roof, cement floors, electric light. Contract awarded to Joseph T. Phister, Fox Building, Philadelphia.

**Garage and Open Shed**, East side Wissinoming street, North of Longshore, \$5,000. Architect, private plans. Owners, H. Disston & Sons, Tacony, Philadelphia. Brick, 1 story, 39x52 feet, open shed, 39x52 feet, slag roof, cement floors, electric lighting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**Alterations**, 1022 Vine street, Philadelphia, \$7,500. Architect, private plans. Owner, Louis Freedman, 1022 Vine street, Philadelphia. Bulk windows, carpentry and mill work, plastering, painting and glazing. Contract awarded to George H. Evans, 105 North Thirteenth street, Philadelphia.

**Garage (alts.)**, 1841-43 North Nineteenth street, Philadelphia, \$5,000. Architect, private plans. Owner, Samuel Frankel, 1946 East Moyamensing avenue, Philadelphia. General alterations, cement floors, plastering. Contract awarded to A. Lashner, 4807 North Eighth street, Philadelphia.

**Apartment House and Store**, South side Market street, East of Sixty-ninth street, Philadelphia. Architect, private plans. Owner, name withheld. Brick, 3 stories, 21x80 feet. Builder taking sub-bids on all lines. Contract awarded to Alfred V. Gilchrist, Drexel Building, Philadelphia.

**Garage**, 501 East Washington Lane, Philadelphia, \$4,500. Architect, private plans. Owner, Walter B. Jones, on premises. Stone, 1 story, 20½x110 feet, cement floors, electric light. Contract awarded to Frank Achuff, 1600 North Front street, Philadelphia.

**Storage Building**, South side Allegheny avenue, East of Fifth, \$2,000. Architect, private plans. Owners, Smith Drum Co., Fifth and Allegheny avenue, Philadelphia. Iron, 1 story, 26x70 feet, corrugated iron roof, cement floors. Contract awarded to Edward J. Bailey, 1115 East Montgomery avenue, Philadelphia.

**Coal Vault**, East side Eighteenth street, North of Jefferson street, \$2,600. Architect, private plans. Owners, Little Sisters of the Poor, on premises. Stone and reinforced con-

crete vault. Contract awarded to D. W. O'Dea, 420 Duncannon avenue, Philadelphia.

**Residence and Store (add.)**, 5526 Lansdowne avenue, Philadelphia, \$2,500. Architect, private plans. Owner, Leroy Levis, on premises. Brick, 1 story add., 15x20 feet, slag roof, electric lighting. Contract awarded to L. W. Crossan, 1311 North Fifty-fifth street, Philadelphia.

**Store and Residence (alts.)**, Northwest Corner Montgomery avenue and Darien street, Philadelphia, \$2,700. Architect, private plans. Owner, Charles Becks, on premises. General alterations. Contract awarded to A. Altman, 1550 North Sixth street, Philadelphia.

**Storage Building (add.)**, 3631 North Second street, Philadelphia, \$2,400. Architect, private plans. Owners, Certain-Teed Products Corp., on premises. Brick, 1 story add., 82x12 feet. Contract awarded to E. S. Tillotson, 608 Wesley Building, Philadelphia.

**Garage**, East side Sixtieth street, South of Baltimore avenue, \$7,500. Architect, private plans. Owner, Thomas Slattery, Stephen Girard Building, Philadelphia. Brick, 1 story, 134x72x62 feet, irregular, slag roof, cement work. Contract awarded to Daniel Josephson, 5405 Walnut street, Philadelphia.

**Residence**, 4095 Lancaster avenue, Philadelphia, \$16,800. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Joseph Treegoob, 4083 Lancaster avenue, Philadelphia. Brick, 2 stories, 16x70 feet, 13x15 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

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## PENNSYLVANIA Construction News

**Residence**, St. David's, Pa. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, William Schwendeman, care of architect. Frame and stucco, 2½ stories, 26x36 feet, shingle roof. Plans in progress.

**Residence (alts. and add.)**, Elkins Park, Pa. Architect, H. Rex Stackhouse, 1126 Locust street, Philadelphia. Owner, Birchell Hammer, Elkins Park, Pa. General alterations and additions. Plans in progress.

**Residence and Garage**, Mt. Penn, Reading, Pa. Architect, L. D. Lance, 108 North Fifth street, Reading, Pa. Owner, Dr. E. G. Meter, 948 Penn street, Reading, Pa. Sketches in progress.

**Church (add.)**, Freedensburg, Pa. Architect, Calvin J. Young, 226 North Sixth street, Reading, Pa. Owners, Reformed Lutheran Church, H. B. Ritter, Oley, Pa. Brick, stone, 1 story and basement, 20x30 feet, hardwood floors, electric lighting. Preliminary plans in progress.

**Residence**, Shartlesville, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owner, A. Leshner, Shartlesville, Pa. Stucco, 2½ stories, 34x40 feet, hardwood floors, hot water heat, electric light, metal lath, tile work. Plans in progress.

**Show Room**, Minersville, Pa. Architect, G. J. Freeman, Liberty Bank Building, Reading, Pa. Owner, S. E. Noel, Minersville, Pa. Hollow tile, brick, 2 stories, 50x150 feet, slag roof, pine floors, steam heat, electric light, rolled steel skylights, fire doors. Revised plans in progress.

**School**, Hershey, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Hershey School Board, Hershey, Pa. Brick, 2 stories. Preliminary plans in progress.

**Office Building**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owner, W. E. Fraim, 549 North Lime street, Lancaster, Pa. Brick, 2 stories, 75x60 feet, slate roof, hardwood floors, steam heat, electric light. Plans in progress.

**Mother House and Academy**, Erie, Pa. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Sisters of Mercy, Erie, Pa. Brick, steam heat, electric light, slate roof, hardwood and pine floors. Architect will be ready for bids in 3 weeks.

**Church and Sunday School**, Welsh and Newton Road, Bushteton, Pa. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, Maternity of Blessed Virgin Mary, Rev. W. J. McMahon, on premises. Stone, 3 stories. Plans about completed. Will be ready for bids in one week.

**School**, Titusville, Pa. Architects, Morris

& McHale, Mears Building, Scranton, Pa. Owners, St. Titus' Roman Catholic Church, Titusville, Pa. Brick, stone, 2 stories and basement, 55x100 feet, hardwood floors, electric light. Plans in progress.

**Office Building**, Upper Darby, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Clarence E. Fox, Upper Darby, Pa. Limestone, brick, 2 stories, 30x76 feet, electric light, slag roof (heating reserved). Owner will take sub-bids.

**Church and Sunday School**, Frackville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Zion Lutheran Church, Rev. W. L. Gallenkamp, Frackville, Pa. Stone, 1 story and basement, 59x139 feet, slate roof, hardwood floors, hollow tile, vapor heat, electric light, hollow metal skylights. Owner ready for bids.

**Building**, location not decided. Architect, C. J. Lappley, Cotterel-Ebner Building, Harrisburg, Pa. Owners, Department of Fisheries, Harrisburg, care of Mr. Briller, Harrisburg, Pa. Hollow tile and stucco, 1 story, 28x135 feet, asbestos shingle roof, concrete floors, steam heat, electric light. Owners will be ready for bids the first of the year.

**Apartment House**, Merion, Pa. Architect, T. B. Lippincott, 11 South Sixteenth street, Philadelphia. Owners, Merion Apartment Co., care of Smullen & Barry, 217 South Broad street, Philadelphia. Brick, hollow tile, stucco, 3 stories and basement, 40x290 feet, 40x100 feet, 40x75 feet, vapor vacuum heat, electric lighting, tile and marble work, rolled steel sash, hollow metal skylights, fire tower, kalamain doors, insulation, kitchen and laundry equipment, hollow tile, refrigerators, built-in beds, oil burning system, tile, hardwood and treadlite floors, slate roof, garage, 1 story, irregular, reinforced concrete, infoced concrete roof. Will be ready for bids in one week.

**Building**, 122-28 North Tenth street, Reading, Pa. Architect, Earl Hickman, 148 South Fifth street, Reading, Pa. Owners, Catholic Literary and Social Union, on premises. Brick and stone, 3 stories, 60x115 feet, composition roof, maple floors, roof ventilators, waterproofing and dampproofing, terra cotta coping, vapor heat, electric light, metal lath, marble work, fire doors, flush bulks, iron

stairs, ornamental iron work. Architect taking bids due January 7th.

**School**, Brockport, Pa. Architects, M. E. Kressley Co., Harrisburg, Pa. Owners, Horton Township School Board, F. W. Jackson, Shawmont, Pa. Brick, 1 story, 130x70 feet, composition roof and floors (heating, plumbing and electric work reserved), roof ventilators, hollow metal skylights. Architects taking bids due December 29th.

**School**, Prospect Park, Moore, Delaware County, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Board of Education, B. F. Moore, president, Prospect Park, Pa. Brick, cut stone, 2 stories, 82x135 feet, slag roof, linoleum and maple floors, hollow tile, safety treads (heating, plumbing, ventilating and electric reserved), metal lath, rolled steel sash, skylights, fire doors, bond, iron stairs, ornamental iron work. Architect taking bids due December 28th.

**Chimney**, Reading, Pa. Architects, The Bal-linger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Reading Hardware Co., Reading, Pa. Brick. Architect taking bids due January 3rd.

**Residence (alts.)**, 150 Hillsdale avenue, Lansdowne, Pa. Architects, Bunting & Shirgley, 602 Chestnut street, Philadelphia. Owner, name withheld. General alterations. Architects taking bids due December 31st.

**Joseph Krauskopf Memorial Library**, National Farms School, near Doylestown, Pa. Architect, Andrew J. Sauer, Denckla Building, Philadelphia. Owners, National Farm School, Doylestown, Pa. Brick, hollow tile, cut stone, steel, limestone, 1 story and balcony, 36x60 feet, copper roof, concrete and pine floors, vapor vacuum heat, electric light, metal lath, tile, marble and terrazzo work, metal weather strip, iron work. Architect taking bids due January 4th.

**Post Office**, State College, Pa. Architect, James A. Wetmore, supervising architect, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Brick and tile, 1 story, 62x64 feet, including mechanical equipment. Owners taking bids due January 21st.

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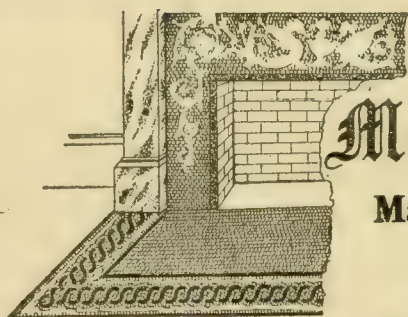
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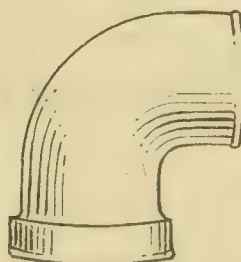
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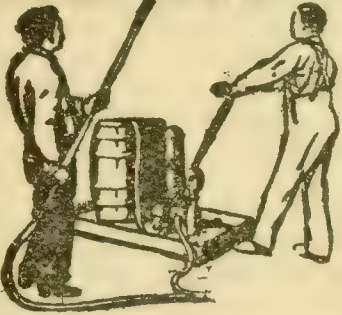
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## Pennsylvania Contracts Awarded

**School**, Greensburg, Pa. Architects, M. E. Kressley Co., Harrisburg, Pa. Owners, Greensburg School Board, Mary M. Peoples, secretary, Greensburg, Pa. Brick, steel, concrete, 2 and 3 stories, 316x189 feet, tile roof, composition floors, safety treads (heating, plumbing, electric work and ventilating reserved), metal lath, skylights. Contracts awarded: General, National Concrete Fireproofing Co., Cleveland, Ohio, \$224,900. Heating and ventilating, W. J. Choll Co., Youngstown, Ohio, \$23,997. Plumbing, R. T. Withers Co., New Castle, Pa., \$17,157. Electric work, William Murphy, Greensburg, Pa., \$108.50.

**Factory and Storage Building**, Lancaster, Pa. Architect, H. Y. Shaub, Imperial Building, Lancaster, Pa. Owners, Consolidated Cigar Co., Prince and Lemon streets, Lancaster, Pa. Brick, steel, plank, 3 stories and basement, 83x90 feet, slag roof, concrete floors, freight elevators, electric light, hollow metal sash, fire doors. Contract awarded to D. S. Warfel, 39 East Grant street, Lancaster, Pa.

**Garage and Repair Shop**, Prangly and Ruby streets, Lancaster, Pa. Architect, W. P. Erisman, Woolworth Building, Lancaster, Pa. Owner, P. S. Devers, 228½ East Walnut street, Lancaster, Pa. Steel, concrete, cinder block, 1 story, 55x207 feet, asphalt roof, concrete floors, steam heat, electric light, rolled steel sash, fire doors. Contract awarded to A. Meyers, Lancaster, Pa.

**Factory**, Telford, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Sachman Brothers, Union Square Building, New York. Brick and steel, 2 stories, 136x50 feet, slag roof, pine floors, hollow metal sash, fire doors, bond, iron work, roof ventilators. Contract awarded to Ely W. Ultz, Telford, Pa.

**Factory**, Ardmore, Pa. Architect, Charles E. Talley, Telford, Pa. Owners, Mentopine Corp., care of architect. Brick, slow burning, 4 stories, 60x100 feet, steam heat, electric light, tile work, slag roof, maple floors, hollow metal sash. Contract awarded Bowden Const. Co., 1936 Chestnut street, Philadelphia.

## New Jersey Construction News

**Warehouse and Office**, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Earl Watson, 116 East Hanover street, Trenton, N. J. Brick, steel, 2 stories. Too early for details.

**High School**, Lambertville, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, Lambertville School Board, care of architect. Fireproof, reinforced concrete, steel, brick, 3 stories, 150x56 feet, slag roof, hardwood and concrete floors (heating, electric work and plumbing reserved), tile, marble and terrazzo work, hollow metal skylights, fire doors, bond, floor hardener, iron stairs, ornamental iron work, hollow tile, safety treads, roof ventilators, waterproofing, dampproofing. Plans in progress. Bids in 3 weeks.

**Court House (alts.)**, South Broad and Market streets, Trenton, N. J. Architects, W. W.

Slack & Son, St. Regis Building, Trenton, N. J. Owners, Board of Chosen Freeholders of Mercer County, E. E. Margerum, secretary, Court House, Trenton, N. J. Stone, 1 story, hardwood floors, (1) elevator, heating extension, tile and marble work, general alterations. Architect ready for bids.

**Stores and Apartments (3)**, Washington Crossing, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, J. A. Belantoni, Pennington, N. J. Fireproof, steel, 2 stories, 60x80 feet, tile and slag roof, hardwood floors, hot water heat, electric light. Architect ready for bids due about January 4th.

**Residence (alts.) to Office**, 224 Hanover street, Trenton, N. J. Architect, Walter Hankin, 39 East State street, Trenton, N. J. Owner, Samuel Hilton, Forst Richey Building, Trenton, N. J. Brick, 2 stories, pine floors, composition floors, electric light, general interior alterations. Owner will build.

**Residence**, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owner, Fred G. Hoffman, care of architect. Frame, 2½ stories, 37x26 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Lowest bidder: Samuel Wiley, 517 Monmouth street, Trenton, N. J.

**School**, Allentown, N. J. Architect, H. A. Hill, Broad Street Bank Building, Trenton, N. J. Owners, Allentown School Board, E. H. Porter, Allentown, N. J. Lowest bidders: General, William C. Ehret, 13 West State street, Trenton, \$58,986. Heating, William G. Royer, 510 Stuyvesant street, Trenton, \$8,690. Electric, Jackson Electric Co., Forst Richey Building, Trenton, N. J., \$1,260.

**Hospital Buildings**, Asyla, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Tuberculosis Hospital Association, Camden County Board of Chosen Freeholders, Court House, Camden, N. J. Low bidders on general contract: T. M. Gibbs Const. Co., 215 South Broad street, Philadelphia, \$1,149,018; Sinclair & Griggs, Medical Arts Building, Philadelphia, \$1,154,000.

**School**, Twenty-ninth and Mickel streets, Camden, N. J. Architect, C. S. Adams, 2038 Spruce street, Philadelphia. Owners, Cramer Public School, A. Austeruhl, secretary, Camden, N. J. Low bidders: G. Bachman, Camden, N. J., \$185,269; Bennett McLaughlin, 21 South Seventeenth street, Philadelphia, \$191,607. Electric, Strange Elec. Co., 214 South Seventh street, Philadelphia, \$7,839. Plumbing, W. J. Kelly, Camden, N. J., \$8,520. Heating and ventilating, Camden Heating Co., Camden, N. J., \$15,200; Mechanical Equipment Co., 214 South Twelfth street, \$12,949.

**Memorial Building for Colored Veterans of all Wars**, South side Adriatic avenue, between Kentucky and New York avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Commissioners, Atlantic City, N. J. Building construction (plumbing, heating and electric reserved). Bid must be accompanied by certified check. Will contain swimming pool and playground. Concrete, steel, brick, 4 stories, 60x100 feet, slag roof, cement, pine floors, hollow tile, metal lath, electric light, waterproofing. Owners taking bids due January 31st, 3 P. M.

The BUILDERS' GUIDE is in its thirty-eighth year of continuous publication.

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## New Jersey Contracts Awarded

**Doctor's Cottage**, Municipal Colony, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Brick, 2 stories, 40x26 feet, slate roof, pine floors, vapor heat. Contract awarded to William Burton, American Mechanics' Building, Trenton. Heating awarded to William G. Royer, 510 Stuyvesant street, Trenton.

**Small Pox Hospital**, Municipal Colony, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Frame, 2 stories, 40x100 feet, slate roof, composition floors. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton. Heating awarded to William G. Royer, 510 Stuyvesant street, Trenton, N. J.

**Hospital (add.)**, Trenton, N. J. Architect, William Klemann, First National Bank Building, Trenton, N. J. Owners, City of Trenton, care of Mayor, City Hall, Trenton, N. J. Brick, 1 story add., 15x18 feet, tin roof, composition floors. Contract awarded to General Cont. & Const. Co., 117 Emory street, Trenton, N. J. Heating awarded to William G. Royer, 510 Stuyvesant street, Trenton, N. J.

## Miscellaneous Construction News

**Sales and Service Building and Motor Building**, Washington and Eeks, Albany, N. Y. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, E. B. Stratton Motor Corp., Albany, N. Y. Reinforced concrete, steel, brick, 4 stories, 66x75 feet, 4 stories, 66x226 feet, slag roof, cement floors, electric light, steam heating, marble work, rolled steel sash, elevators, terra cotta work, wire glass, ornamental plaster. Architects taking bids due January 7th at 100 East Forty-second street, New York.

**Road Work**, Delaware. Owners, Delaware State Highway Department, Delaware. Contract 42-B, through Seaford, and Seaford Bridge, 0.21 mile. Low bidders: Imbach, Woxny & McCoy, Baltimore, Md., \$69,447; A. L. Altamus, 206 South Penn street, Philadelphia, \$73,982.

## Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Dec. 20, 1923. Sealed Proposals will be opened in this office at 3 P. M., Jan. 21, 1924, for the construction, including mechanical equipment, of a one-story brick and tile non-fireproof Post Office building, approximately 62 by 64 feet in size, at State College, Pa. Drawings and specifications may be obtained from the Custodian of the site at State College, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

## NOTICE TO BIDDERS

TAKE NOTICE that at a meeting of the Board of Commissioners of the City of Atlantic City, to be held in the Commission Chambers, City Hall, on the thirty-first day of January, 1924, at 3.00 o'clock in the afternoon, sealed bids will be received and opened for the Building Construction, for Plumbing and Gas Fitting, for Electrical Installation and

for Heating, in the proposed Memorial Building for the Colored Veterans of All Wars, to be located on premises situate on the South-erly side of Adriatic Avenue, between Kentucky and New York Avenues, Atlantic City, N. J.

Bid blanks must be used by all bidders, and can be obtained by applying to the office of Howard A. Stout, Architect, Guarantee Trust Building, Atlantic City, N. J.

Full information as to the requirements imposed upon bidders will be found in the Bid Blanks and in the Specifications also to be obtained at the office of Howard A. Stout, Architect.

All bids must be accompanied by a certified check drawn to the order of Albert Beyer, City Treasurer, as follows:

Building Construction, one thousand dollars (\$1,000).

Plumbing and Gas Fitting, three hundred dollars (\$300).

Electrical Contract, three hundred dollars (\$300).

Heating Contract, five hundred dollars (\$500).

For all further instructions consult the NOTICE TO BIDDERS, the Form of Proposal and Specifications.

The City Commission reserves the right to reject any and all bids, without giving any reason therefor.

LOUIS A. STEINBRICKER,  
Director of Department of Streets  
and Public Improvements.

(Continued from page 820)

fellows is a reflection upon our whole civilization. It is in violation of the whole spirit of trade unionism and it has done much to discredit the trade union principle in the minds of many employers. The jurisdictional dispute is the specter which has frightened the management of many industries and has caused many employers to set their faces against organized labor. The jurisdictional dispute must go if trade unionism is to fulfill its high purpose in our national industrial life.

I would have trade organizations foster a spirit of loyalty, of loyalty to fellow workers, to craft, to industry and to employer. I would be slow to use the strike weapon.

## Against Force Efforts

I am not one of those who believe that you can force industrial peace into being by legal enactment. There is much talk nowadays of compulsory arbitration of labor disputes in one form or another, but the principle does not seem sound to me. Strikes and lockouts have been with us since the days when the Hebrews in Egypt refused to make brick without straw. They are with us today, and will be with us so long as employers seek to impose unbearable conditions upon workers, or workers endeavor to obtain more from industry than they are entitled to. The remedy lies not in the intervention of government, or any other authority between employer and employee, but in direct negotiation and mutual understanding.

The misery and evils of the strike are well known to me. I have experienced

the trials of the strike as a worker, and as Secretary of Labor a constant stream of industrial disputes flows over my desk. The tragedy of every strike, it seems to me is that ultimately it is settled by negotiation. After men have been idle for months, after women and children have been brought down to the last crust of bread, the representatives of the disputing sides get together around the council table and reach a settlement. They begin right where they were when the months of misery started. In almost every case both employer and worker have lost by reason of the conflict. Instead of calling a conference after months of industrial struggle, I would have the council table called in before the strike is begun. It is far better for both sides to compromise before a strike is called and eliminate the cost to both sides which must be paid for every suspension of industry. Let both management and worker remember that the best way to raise wages is to cut waste and increase production. When the employer moves forward, the worker must progress.

## Reflected in Wages

Increased production, better quality of work, means reduced production costs, which every wise employer will see to it are reflected in higher wages. Any employer would rather pay \$10 a day to the worker whose labor will give him a profit of \$8 than to pay \$5 a day to the worker whose labor will net a profit of only \$2. It is not wise for men and management in any industry to wait for the time of trouble before getting together. When business is prosperous is the time for worker and employer to work out plans for the stabilization of conditions in their industry, to devise ways and means for meeting the periods of depression which are bound to come. Men and management in industry working with a clear understanding of each other's problems and seated around the council table, can



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solve their own problems better than any outside, agency, government endorsed, otherwise, can solve them.

One thing we may well congratulate ourselves upon in the United States. American labor has always been loyal. We have no great red radical element among the leaders of American organized labor to threaten the perpetuity of our institutions. It is the eternal credit of the leadership of American labor that the elements of anarchy and sovietism which have permeated the workers of so many countries have found no foothold here. The anarchist and the bomb-thrower have found in American labor nothing but stony ground for the seeds of their propaganda. American labor is truly American. It believes in those principles of representative government upon which our national existence was founded. It has and it will always reject any leadership which seeks to undermine those eternal fundamentals of:

Liberty under law;  
The right of free labor;  
The right of free contract;  
The right of protection of life and property.

In many cities employers and workers in the building trades are co-operating in an effort to supply the constantly increasing demand for men trained in the building crafts. In Cleveland a real success has been made of a combination of the apprentice system and the trade school plan. This problem can only be met through co-operation, for it is a problem which is vital to both workers and employers in the industry. Its magnitude may be seen in the fact that in construction work alone the industry calls for an annual supply of 35,000 additional skilled workers and 12,000 unskilled workers to replace losses caused by death, old age and similar causes.

In the field of unskilled labor immigration enters into the problem. We face increasing difficulty in getting Americans to do our common labor, to wield the pick and shovel, to haul the bricks and mortar. For many years we have depended upon immigration to supply us with this class of workers. It is vitally important, therefore that we have a safe, sane, American policy as to immigration a policy that will give us immigrants who are best for this country, who will fit into our scheme of things, who will meet the needs of our economic, social and political life.

(This text presents the substance of a speech delivered by Secretary Davis before the Cleveland Builders' Exchange, November 21.)

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

Contractors throughout the entire country now are laying plans to attend the Fifth Annual Meeting of the Associated General Contractors of America, to be held January 21, 22, 23 and 24 in Chicago. Officials of the organization state that indications already assure a record breaking attendance.

The convention is to be held during the week immediately following the annual sessions of the American Road Builders' Association and the Road Show, and a joint meeting of this body with the Executive Board of the contractors' organization will be held January 17.

"Cut Construction Costs": this is to be the key note of the convention. The attack upon costs mainly will be launched through the medium of efforts aiming at fullest capitalization of weather conditions favorable to construction operations, an increased volume of winter building, and storage of building materials during periods of the year when construction is at its lowest ebb. By utilization of these means, it is being pointed out, the contractors' overhead will be reduced. They will be able to avoid the extra expense entailed by the present "sprint and spurt" character of the year as regards construction. They also will be able to hold skillful organizations together.

Not only will contractors who are anxious to secure the benefit of detailed discussion leading to conclusions attend these sessions, officials declare, but engineers and architects in large numbers will be present to make first hand observations of the developments.

Though strong emphasis is to be placed upon the subject of cost reduction, largely because of the public service involved, many other subjects have advanced through the past twelve months to the point where they are ready to be acted upon by the national assembly of contractors.

The list of speakers carried on the tentative program includes many leaders of the construction industry and noted observers of economic conditions peculiar to construction operations.

The program for the joint session with the Road Builders' Association follows:

Chairman: John W. Cowper, president Associated General Contractors of America.

The Purpose and Progress of Equipment Standardization: Address by C. E. Bement, president Novo Engine Co., Lansing, Michigan.

Standard Highway Contracts a Public Service: Address by General R. C. Marshall, Jr., general manager, Associated General Contractors of America.

Economic Aspects of Day Labor Construction: Address by Arthur S. Bent, Bent Brothers, Los Angeles, California.

Bonds as a Gauge of Responsibility: Address by N. F. Helmers, of Seims, Helmers and Shaffner St. Paul, Minn.

The program for the general sessions is being prepared with the aim of allowing no subject of importance to pass without receiving its proper quota of emphasis, attention and discussion. The speakers all are acknowledged to be clear of vision and able of expression.

Addresses will be delivered on the following and other subjects, according to the tentative program:

Economic aspects of day labor.

The trend of construction.

Operation of the income-tax law.

Views on building labor.

How to cut construction costs.

Purpose and progress of equipment standardization.

How to make concrete mixer standards effective.

Trade associations.

Collegiate preparation for contractors.

Addresses on the following subjects are to be delivered before the indicated divisions of the organization at their separate meetings:

Quantity surveys.

Relationships between the highway commission and the contractor.

Resumption of railway construction.

Central concrete mixing plants.

Bonds as a gauge of responsibility.

Annual report of joint committee of American Association of State Highway Officials and the Associated General Contractors.

Applications for reduced railroad rates have been filed by Washington headquarters with the railway passenger associations, and favorable action in the very near future is expected. These rates will carry the usual one-half reduction on return trip.

Requests for hotel reservations are being handled at the Washington headquarters of the organization. Provision in this connection has been made by block reservations at the La Salle Hotel, which will be convention headquarters. These reservations will accommodate approximately 500 people, a total of 300 rooms being set aside for the Associated General Contractors' members during the period from January 21 to the close of the convention. Reservation of 30 rooms has been made to begin January 17, the date of the joint meeting of the Road Builders' Association and the Associated General Contractors' Executive Board.

Contrast to the work-a-day side of the convention will be furnished in the extensive entertainment program. Naught more than that need be said in this connection. The General Contractors' Association of Chicago will be host to the visiting contractors and their ladies.

The annual banquet will be held on the night of the last day of the meeting, January 24, and plans already laid indicate that it will assume a notable position in the history of the organization. One week before this event, on the night of



January 17 the stag banquet of the American Road Builders' Association will be held, the allotment of tickets for this function to be made on the 15th, with previous application necessary.

The La Salle Hotel has 1,026 rooms. The rates per day follow: One person, with detached bath, \$2.50 to \$3.00; with private bath, \$4.00 to \$7.00. Two persons: Detached bath, \$4.00 to \$5.50; private bath \$6.00 to \$9.00. Two connecting rooms with bath: Two persons, \$6.50 to \$9.50; three persons, \$8.50 to \$11.50; four persons, \$10.00 to \$13.00.

## COMMUNITY PLANNING AND HOUSING

CLARENCE S. STEIN

### *Housing in Christiania*

In the past ten years the city of Christiania has spent about a hundred million kroner (roughly \$27,000,000) in erecting low rental dwellings. Yet Christiania is smaller, for instance, than Newark, New Jersey, and if New York City, for example, had built houses on a similar scale, toward a billion dollars would have been expended for that purpose during the same period, and the annual expenditures of the largest American city for housing would have constituted the heaviest item in the municipal budget.

Cities in general, the world over, may learn a lesson from the capital of Norway, for all large and growing communities, and even the smaller ones, have to realize what it means when private capital turns away from the production of that class of dwellings which are needed by the most people. In Europe, the measure of this development was, as is well known, widely experienced before the war, many cities suffering from an ever and ever more acute shortage in low-rental dwellings as well as from an increasing decline in the quality of such buildings as tenants were forced to accept. War or no war, the economic tendencies at the root of the trouble would have become quite as universal as they are today.

But Christiania offers a conspicuous example of what a city of a few hundred thousand people may achieve in endeavoring to relieve the shortage of low-cost dwellings. The municipality was forced to take action when, some twenty years ago, the production of this class of accommodations ceased. Even before, in the beginning of the nineties, the city had begun to feel the hardship, discomfort, and annoyance of a housing shortage, an experience which coincided with the rapid increase of population which began at that date and continued during the succeeding ten years. This growth offered a golden opportunity for speculative building, than which nothing more unfortunate can overtake a city. Through almost

the entire period of the nineties there was a feverish activity, resulting in such an overproduction of dwellings that in the year 1900 there were nearly 6 per cent. of vacancies—and Christiania began to experience the severest building crisis of its history. The crisis was aggravated in the years from 1900 to 1905, in which period the population actually decreased by a few thousand, in consequence of which not less than ten per cent. of the total number of dwellings were unoccupied in the latter year.

During the building boom which came to so disastrous an end, there had been built a great number of small dwellings, yet the output was relatively smaller than the demand because private capital had already shown a preference for investing in expensive apartment houses and business buildings. Norway at that time traversed a period of industrial expansion, of rising wages, of rising cost of well nigh everything, building materials not excepted. Speculation was growing. The cost of living was rising. Norway, in those years, exhibited signs of what is generally termed prosperity.

Industry grew fast in and around Christiania. It grew also in the provinces. But Christiania, the capital of the nation and its greatest city, was of course the economic and financial center of this development, where new companies were rapidly formed, new banks founded, and where retail trade flourished. Business demanded space. Thus many dwellings in the center of the city were pulled down and business buildings took their place. Apartment houses were converted into offices. Land prices rose rapidly. Building became more costly and luxurious than it had ever been. Rents increased. Many expensive apartment houses were built to house the relatively few wealthy or well-to-do. While to complete the picture of inflation and its effects, all the circumstances thus created combined in preparing a more permanently precarious housing situation—one which finally gave rise to a veritable housing problem.

During the early years of the present century tenants had enjoyed the benefits of a surplus of housing accommodation. The city was growing slowly and the previous overproduction had left an abundance which naturally caused rents to fall. But in 1905 the population began to increase at a more rapid rate, growing by nearly 30,000 in the succeeding ten years. It was then that the development entered the critical stage. In the year 1910 the percentage of vacancies had fallen to two per cent as against ten per cent. in 1905. In 1915 the vacancies fell to four-tenths of a per cent. Thus it may well be observed that the seriousness of the housing situation was a pre-war development, and that the war and

its consequences have merely had the effect of aggravating a condition which already was intolerable before 1914.

The building of small dwellings, already insufficient in number during the building boom of the nineties, had ceased. On the other hand, the boom had resulted in a surplus of more expensive dwellings, of which the supply was continuously ample to meet all needs. The situation gave ample evidence of the fact that private capital could no longer be relied upon to meet the requirements of the emergency, a conclusion which was reached by the majority of Christiania's municipal council. Could the municipality remain indifferent when facing a situation so menacing to the welfare of the community? Did not the experience so far gained sufficiently justify constructive municipal intervention in housing matters? Such an intervention had indeed been proposed in the early nineties in order to relieve the then threatening housing shortage, and the community had, in fact, built a few houses in the ensuing years. It seems safe to conclude, in view of later developments, that this first faltering step toward a constructive housing policy had been one in the right direction.

Today, the practical measures taken by the city of Christiania proclaim the answer to the questions raised. With justifiable pride the municipality can point to the remarkable results of nearly a dozen years of housing activity. During that time the city has gathered experience both regarding the difficulties attending and the possibilities of municipal housing. It need hardly be emphasized that the difficulties were enhanced by those very conditions which now make municipal housing more urgent than ever.

Several years before the effects of the war became most seriously felt, Christiania started construction. In 1912 the first beginning was made. In the earlier half of 1914 plans were completed for building on a much larger scale. Since that time, thousands of dwellings have been erected. A present-day visitor to Christiania would certainly miss something if he or she failed to see the results of municipal building activity. The old Christiania,—the remnants of what was built a hundred or more years ago,—can no more be seen. It was almost completely swept away by the extensive rebuilding of the nineties. Little remains to remind one of the ancient origin of the city. The center has been transformed into that diversified but not very enjoyable character which is stamped upon most of those old-world centers that became modernized during the later half of the nineteenth century. The Christiania which has thus disappeared was no doubt a city very modest in its appearance, but



those engaged in remaking it were not always so unassuming, for here, also, the vanity of architectural pretense was a stalking specter of bad taste.

Since that time, however, architecture has descended from its pedestal in Norway as elsewhere. Norwegian architects are once more able to design houses with a regard for simplicity, as is evidenced by the new Christiania which has arisen under the auspices of the municipality. More than that, there is also ample testimony that real city planning is practiced in Norway. The results are in visible evidence.

Primarily for this reason the visitor to Christiania should not miss the opportunity afforded. All around the city, in all of its outskirts, are to be found groups of municipal houses, well adapted for their purpose and harmoniously laid out. There is much variety in the planning. The aspect of sternness or severity which is sometimes thought to pervade Northern architecture is here mitigated by picturesque grouping. In general, the effect is agreeable and attractive. It is precisely the opposite of that hardness, coldness, and monotonous indifference which has so largely made great areas of our modern cities into a repulsive and inhuman jumble. Here again, as in ancient Greece, the word city seems to designate not primarily the streets and houses, but those who live in them. They have been considered in the planning, not merely as rent-paying tenants, but as human beings.

And is this not a precious impression to retain—for us, poor city-dwellers of today, surrounded as we are by the chilly atmosphere of the "house to be bought and sold," of the human warehouse of modern exploitation? Only those who can afford a house of their very own, can escape this atmosphere by fleeing from it at intermittent intervals. In Christiania, thanks to the municipal housing schemes, the chance of escape has been extended to at least some of those who, both economically and otherwise, are the victims of the housing systems that now universally prevail.

How different the result would have been if those areas, now occupied by Christiania's own houses, had been left to the exploitation of private enterprise. It is a hundred times more likely than unlikely that it would have been inferior, not only in its social and economic, but in its architectural aspects. Only where the result is good in all these respects are the objects of city planning fully attained. In Christiania the houses are spacious. Ample room is left for gardens and play spaces, and as the city remains the owner and the landlord the tenants need have no fear of the dread consequences of building speculation.

Thus it appears that the necessity of building dwelling-places, enforced on the

municipality of Christiania by the chain of circumstances which no modern city has escaped or can hope to escape, offered an opportunity of which the most was made. Indeed, so well was the opportunity realized that Christiania, as regards municipal housing, now stands first in Scandinavian countries. In all Europe, few municipalities have done as well.

Yet this is not all. Christiania has done much to relieve the housing shortage by other means. The city had aided private building activities in many ways. Loans aggregating tens of millions have been granted to private builders. Municipal credit has been pledged for loans, the total value of which is in tens of millions. Other easements of various kinds have been accorded. Building societies have been aided and their formation encouraged and practically facilitated. To promote these activities the Norwegian state has granted subsidies to the city, but most of the monies expended have been in the nature of purely municipal appropriations.

The initiative manifested makes a good showing, it would seem, for a city of little more than 250,000 inhabitants. Yet in engaging in these strenuous tasks of the present the city authorities were not unmindful of the future. Low-rental houses can be erected only on low-priced land—on land which is beyond the influence of speculation. If a community fails to acquire land, when it is at its cheapest, and before it has been acquired and held for speculation, all attempts at a constructive policy are doomed to failure.—*Journal of American Institute of Architects.*

## BUSINESS OUTLOOK

Notwithstanding the gloomy forebodings of the pessimists business is on a fairly stable basis and the threatened building slump freely predicted earlier in the year has failed to materialize. With material manufacturers catching upon back orders as a result of increased plant facilities, and no prospects of any serious labor troubles in the near future, the industry is faced with a condition that will mean uninterrupted activity for the balance of the year. The only difficulty at present is the labor shortage, but contractors will have to continue to work short handed until the trade school movement which has been given a good start begins to turn out skilled mechanics in sufficient numbers to make their presence felt.

Organizations can do something in the way of offsetting the work of the professional crepehangers who are going up and down the country telling people that the present era of prosperity cannot last and that a serious depression is just around

the corner. It is an accepted fact among psychologists that the state of one's mind has a decided bearing on the conditions of one's health, and the same is just as true in business. The business of building will be good just as long as those in it believe that it is. There is an old saying to the effect, "that there is nothing good or bad but thinking makes it so." Therefore, let everyone who may be tempted to think that next year will not be as good as this one has been, resolve to banish the thought from his mind, and in its place carry the idea that the present period of construction activity will continue for many months to come.—*Associated Contractor.*

## WHY PLASTER "POPS"

Lime which has been overburned or which has been burned during hydration is the cause of popping in plaster, tests made at the Bureau of Standards have shown. In this type of failure small particles appear to expand and push themselves out of the plaster, leaving tiny holes. In extreme cases these holes may be sufficiently large or numerous to be unsightly. It has been shown that popping will not be serious if the lime is ground fine enough to pass through a No. 50 sieve, as in that case the lime will be completely hydrated during the mixing and application, or else the particles of defective lime will be too small to cause noticeable holes.

These tests were made in co-operation with the National Lime Association, the Contracting Plasterers' Association and the International Plasterers' Union. Ninety-eight panels were erected containing different impurities in different sized particles. It was found that, with the possible exception of sand, impurities other than overburned lime did not cause popping no matter how coarse they were.

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